UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Amendment No. 2

FORM S-1 **REGISTRATION STATEMENT**

UNDER THE SECURITIES ACT OF 1933

Electrocore, LLC* (Exact name of Registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization)

3845 (Primary Standard Industrial Classification Code Number) 150 Allen Road, Suite 201 Basking Ridge, New Jersey 07920 (973) 290-0097

20-345-4976 (I.R.S. Employer Identification Number)

(Address, including zip code, and telephone number, including area code, of Registrant's principal executive offices)

Francis R. Amato **Chief Executive Officer** Electrocore, LLC 150 Allen Road, Suite 201 Basking Ridge, New Jersey 07920 (973) 290-0097

(Name, address, including zip code, and telephone number, including area code, of agent for service)

with copies to:

Approximate date of commencement of proposed sale to the public: As soon as practicable after the effective date of this Registration Statement.

John L. Cleary, II, Esq. Ira L. Kotel, Esq. Dentons US LLP 1221 Avenue of the Americas New York, New York 10020 (212) 768-6700

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if any of the securities bein	g registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of a	1933 check the following box:			
	ter additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and dier effective registration statement for the same offering.	list the Securities Act registration			
	ive amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act reg statement for the same offering. \Box	istration statement number of the			
	ive amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registatement for the same offering. \Box	istration statement number of the			
	ether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an ated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange				
Large accelerated filer Non-accelerated filer	□	Accelerated filer Smaller reporting company Emerging growth company			
If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided to Section 7(a)(2)(B) of the Securities Act.					

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

EXPLANATORY NOTE

Electrocore, LLC, the registrant whose name appears on the cover of this registration statement, is a Delaware limited liability company. Prior to the closing of this offering, Electrocore, LLC intends to convert into a Delaware corporation pursuant to a statutory conversion and change its name to electroCore, Inc. As a result of the corporate conversion, the holders of units of Electrocore, LLC will become holders of common stock and options to purchase common stock of electroCore, Inc. Holders of warrants to purchase units of Electrocore, LLC will become holders of warrants to purchase common stock of electroCore, Inc. See "Corporate Conversion." Except as disclosed in the accompanying prospectus, the consolidated financial statements and selected historical consolidated financial data and other financial information included in this registration statement are those of Electrocore, LLC and do not give effect to the corporate conversion.

The information in this preliminary prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This preliminary prospectus is not an offer to sell these securities and it is not soliciting offers to buy these securities in any state where the offer or sale is not permitted.

Subject to Completion, Dated June 11, 2018

4,333,333 Shares

ELECTROCORE, INC.

Common Stock



- electroCore, Inc. is offering 4,333,333 shares of its common stock.
- The initial public offering price of our common stock is expected to be between \$14.00 and \$16.00 per share.
- This is our initial public offering and no public market currently exists for our common stock.
- We have applied for the listing of our common stock on The Nasdaq Global Select Market under the symbol "ECOR."

Investing in our common stock involves risks. See "<u>Risk Factors</u>" beginning on page 13 to read about factors you should consider before buying shares of our common stock.

We are an "emerging growth company" as defined under the U.S. federal securities laws and, as such, intend to comply with certain reduced public company reporting requirements for this and future filings.

	Per Share	Total
Initial public offering price	\$	\$
Underwriting discounts and commissions(1)	\$	\$
Proceeds, before expenses, to electroCore, Inc.	\$	\$

⁽¹⁾ We have agreed to reimburse the underwriters for certain expenses. We refer you to "Underwriting" for additional disclosure regarding total underwriting compensation.

The underwriters have an option to purchase a maximum of 649,999 additional shares.

Certain of our direct and indirect unitholders, including entities affiliated with certain of our directors, have indicated an interest in purchasing an aggregate of \$20 million in shares of our common stock in this offering at the initial public offering price per share. However, because indications of interest are not binding agreements or commitments to purchase, the underwriters may determine to sell more, less or no shares in this offering to any of these holders, or any of these holders may determine to purchase more, less or no shares in this offering. The underwriters will receive the same underwriting discount on any shares purchased by these holders as they will on any other shares sold to the public in this offering.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

Delivery of the shares of common stock will be made on or about , 2018.

Joint Bookrunners:

Evercore ISI	Cantor	JMP Securities
	Lead Manager:	
	BTIG	

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Neither we nor the underwriters have authorized anyone to provide you with any information other than that contained in this prospectus, any amendment or supplement to this prospectus or in any free writing prospectus we may authorize to be delivered or made available to you. The underwriters and we take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. We and the underwriters are offering to sell, and seeking offers to buy, shares of our common stock only in jurisdictions where offers and sales are permitted. The information contained in this prospectus is current only as of the date on the front of this prospectus, regardless of the time of delivery of this prospectus or any sale of shares of our common stock. Our business, financial condition, results of operations and prospects may have changed since that date.

For investors outside the United States: We have not, and the underwriters have not, done anything that would permit this offering or possession or distribution of this prospectus in any jurisdiction where action for that purpose is required, other than in the United States. Persons outside the United States who come into possession of this prospectus must inform themselves about, and observe any restrictions relating to, the offering of the shares of common stock and the distribution of this prospectus outside the United States.

MARKET DATA AND FORECASTS

Unless otherwise indicated, information in this prospectus concerning economic conditions, our industry, and our markets, including our general expectations and competitive position, market opportunity and market

size, is based on a variety of sources, including information from independent industry analysts and publications, as well as our own estimates and research.

Our estimates are derived from industry and general publications, studies and surveys conducted by third-parties, as well as data from our own internal research. These publications, studies and surveys generally indicate that their information has been obtained from sources believed to be reliable, although they do not guarantee the accuracy or completeness of such information, and we have not independently verified industry data from such third-party sources. While we believe our internal research is reliable and that our internal estimates are reasonable, such research has not been verified by any independent source and our internal estimates are based on our good faith beliefs as of the respective dates of such estimates. We are responsible for all of the disclosure in this prospectus.

FINANCIAL STATEMENT PRESENTATION

The financial statements for the years ended December 31, 2017 and 2016, and as of and for the three months ended March 31, 2018 and 2017, represent the operations of Electrocore, LLC and its subsidiaries and affiliate. Prior to the closing of this offering, we will complete a corporate conversion pursuant to which electroCore, Inc. will succeed to the business of Electrocore, LLC and its consolidated subsidiaries and affiliate, and the unitholders of Electrocore, LLC will become stockholders and option holders of electroCore, Inc., as described under the heading "Corporate Conversion." In this prospectus, we refer to this transaction as the "corporate conversion." We expect that our conversion from a Delaware limited liability company to a Delaware corporation will not have a material effect on our consolidated financial statements at the time of the corporate conversion.

TRADEMARKS AND TRADENAMES

This prospectus includes our trademarks such as electroCore®, gammaCore® and gammaCore Sapphire™ which are protected under applicable intellectual property laws and are the property, prior to the corporate conversion discussed herein, of Electrocore, LLC, and after the corporate conversion, of electroCore, Inc. Solely for convenience, trademarks, service marks and tradenames referred to in this prospectus may appear without the ®, TM or SM symbols, but such references are not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights or the right of the applicable licensor to these trademarks, service marks and tradenames. This prospectus may also contain trademarks, service marks, tradenames and copyrights of other companies, which are the property of their respective owners.

GLOSSARY

A glossary of scientific and technical terms used throughout this prospectus is included beginning on page 144.

ABOUT THIS PROSPECTUS

Except where the context otherwise requires or where otherwise indicated, the terms "electroCore," "we," "us," "our," "our company," and "our business" refer, prior to the corporate conversion discussed herein, to Electrocore, LLC, and after the corporate conversion, to electroCore, Inc.

PROSPECTUS SUMMARY

This summary highlights certain information about us and this offering contained elsewhere in this prospectus. Because it is only a summary, it does not contain all the information that you should consider before investing in shares of our common stock and it is qualified in its entirety by, and should be read in conjunction with, the more detailed information appearing elsewhere in this prospectus. Before you decide to invest in our common stock, you should read the entire prospectus carefully, including "Risk Factors" beginning on page 13 and our consolidated financial statements and the accompanying notes included in this prospectus.

Overview

We are a commercial-stage bioelectronic medicine company with a platform non-invasive vagus nerve stimulation therapy initially focused on neurology and rheumatology. Our therapy, gammaCore, has pharmacologic effects on the peripheral and central nervous systems, which modulate neurotransmitters and immune function. gammaCore is FDA-cleared for the acute treatment of pain associated with migraine and episodic cluster headache in adults. In order to generate advocacy among physicians and patient demand in the form of prescriptions submitted to payors, we recently initiated a product registry for episodic cluster headache. Having established a base of advocacy among key opinion leaders in the headache field through the product registry, our strategy is to commercially launch in migraine and episodic cluster headache in the third quarter of 2018. Based on our clinical data, we are pursuing label expansions for the prevention of migraine, migraine in adolescents and post-traumatic headache, and are also engaging in clinical development for potential new labeling claims in rheumatology, including Sjögren's syndrome and rheumatoid arthritis.

gammaCore is the first FDA-cleared, prescription-only vagus nerve stimulation, or VNS, therapy administered in discrete doses using a proprietary, simple-to-use handheld delivery system. Multiple published studies suggest that VNS works through the modulation of neurotransmitters, and has a measurable pharmacologic effect similar to several classes of medications, including selective serotonin reuptake inhibitors, serotonin norepinephrine reuptake inhibitors, GABA analogues, acetylcholine esterase inhibitors and triptan medications, all of which are commonly prescribed. gammaCore activates those fibers in the vagus nerve which are therapeutically relevant for neurotransmitter modulation. This is enabled by our proprietary high-frequency burst waveform that safely and comfortably passes through the skin and stimulates the targeted nerve fibers. Research also indicates that VNS, including gammaCore, modulates the immune system to produce a measurable effect on inflammatory cytokines, as measured in blood samples, comparable to medications that inhibit these cytokines.

Background of Vagus Nerve Stimulation

The vagus nerve is the largest and most extensive cranial nerve, connecting the brainstem to nearly every organ in the chest and abdomen, including the heart, lungs, liver, stomach, spleen, kidneys, and digestive tract. Over the past two decades, the body of scientific evidence in support of VNS in multiple medical conditions has been growing. However, this potential has remained unfulfilled because the therapy could only be delivered using electrodes affixed to the vagus nerve, connected to a signal generator implanted in the chest wall. To implant these devices, the vagus nerve must be surgically exposed from its anatomical position entwined with the carotid artery.

Our Therapy Delivery Platform

gammaCore stimulates the vagus nerve through a simple-to-use handheld delivery system dispensing therapy on a 31-day prescription basis and, like medications delivered by metered-dose inhalers, patients self-administer discrete doses. Our delivery platform enables access to VNS for a much broader patient

population than previously possible, making it a potential preferred treatment option. gammaCore's successor, gammaCore Sapphire, is a rechargeable and reloadable version of our product intended for multi-year use. It is activated on a monthly basis through the input of a unique, prescription-only authorization code, delivered via a radio-frequency identification, or RFID, card. In the future, this authorization code may be delivered through the internet, leveraging the Bluetooth capabilities of gammaCore Sapphire.

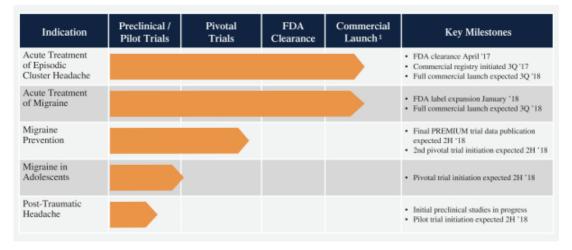
Competitive Strengths

We believe the competitive strengths of our company and our novel and proprietary self-administered bioelectronic therapy include:

- **Innovative bioelectronic medicine approach.** Our gammaCore therapy uses a proprietary electric signal to safely deliver bioelectronic medicine, which causes targeted pharmacologic-like changes in neurotransmitter expression and in the immune system without systemic exposure to exogenous chemicals.
- *Our non-invasive therapy unlocks the long-held potential of VNS.* VNS therapy can, for the first time, be delivered comfortably through the skin using gammaCore. This eliminates the need for costly, invasive surgery that has been reserved for the most refractory patients, requiring the implantation of a permanent medical device.
- Commercializing our therapy through traditional pharmaceutical channels. Our non-invasive delivery modality permits medical professionals to prescribe VNS through the same channel they would any other specialty medication. Refills delivered on a monthly basis enable us to seek widespread commercial payor coverage and reimbursement under a traditional pharmaceutical model. We have agreements in place with commercial payors that we believe, based on our estimates, will provide for reimbursement for gammaCore as a pharmacy benefit for approximately 17 million commercial lives with such number expected to increase to as many as 45 million lives under these agreements over the next several calendar quarters.
- *Highly scalable and low investment manufacturing with digital refills.* Our low manufacturing and assembly costs allow us to scale to meet demand with minimal additional investment. Refills through RFID or Bluetooth may offer attractive gross margins.
- **Potential for rapid label expansion in headache and regulatory approval in additional indications.** In April 2017, the FDA cleared gammaCore for commercial sale in the United States and established a new therapeutic category: external vagal nerve stimulator for the treatment of headache. Through an expedited pathway, gammaCore received clearance for the acute treatment of pain associated with migraine in January 2018. We believe a similar regulatory pathway may be available to us for additional indications in rheumatology.
- **Broad intellectual property protection.** Among our key issued patents, we have coverage on using our high-frequency burst signal for treating certain medical conditions until 2031, the low-pass filtering of that signal to ensure safe and comfortable transmission through the skin until 2031, the non-invasive treatment of headache conditions until 2029, and the remote network-enabled communication for the delivery of neuromodulation therapies for a broad range of medical conditions until 2033.
- *Highly experienced management team.* Our management team includes executives with significant experience in the pharmaceutical and medical device industries, including positions at Pfizer Inc, Merck & Co., Novartis International AG, Stryker Corporation and Zimmer Biomet. Members of our team have been involved in the launch and marketing of products including Motrin, Celebrex, and the migraine drugs Axert and Maxalt. Our team's pharmaceutical experience in clinical development, sales, marketing and reimbursement, and its medical device experience in research, development and regulatory affairs, allow us to pursue our strategy and growth plans.

gammaCore Headache Pipeline

The following table summarizes our headache-related areas of focus for gammaCore:



1. The gammaCore product registry for the acute treatment of cluster headache constitutes our initial commercialization efforts for our product. The full product launch is expected in the third quarter of 2018.

Migraine

Migraine is a debilitating primary headache condition characterized by severe throbbing pain or a pulsing sensation, usually on one side of the head. Migraine affects approximately 12% of the adult population globally and disproportionately impacts women of childbearing years. In the United States, there are approximately 36 million migraine sufferers. Medications used to treat migraine include triptans, ergotamines, and anti-epileptic medications. Despite the fact that neurologists recognize the limited efficacy of, and the potential for abuse associated with, opioids, this class of medication continues to be prescribed for migraine at high rates, particularly in emergency departments. According to the U.S. Pharmacist, a leading pharmacy publication, upwards of 60% of the migraine patient population is dissatisfied with, or has contraindications to, the current standard of care migraine treatments. We estimate the addressable market for the acute treatment of migraine in the United States in 2018 will be approximately \$3.8 billion. Five million migraine sufferers are treated annually by approximately 1,100 U.S. headache specialists, primarily neurologists.

Our FDA clearance for the acute treatment of migraine is principally supported by our pivotal trial, PRESTO. Statistical significance was achieved for complete pain relief at 30 minutes (gammaCore, 12.7%; sham, 4.2%; p=0.01), and maintained at 60 minutes (gammaCore, 21.0%; sham, 10.0%; p=0.02). The primary endpoint of PRESTO was pain-freedom at 120 minutes. While this trial did not reach statistical significance with respect to its primary endpoint, a repeated-measures test examined the inconsistency between the 120-minute finding and the 30- and 60-minute findings. This test demonstrated the statistical significance of gammaCore's superiority over sham for the pain-free outcome through 120 minutes (gammaCore, 30.4%; sham, 19.7%; p=0.01). No serious adverse events were attributable to gammaCore in PRESTO, and the most commonly occurring adverse events were application site reactions, all of which were mild, transient, and tended to be self-limiting in nature. Based on these findings, the FDA cleared gammaCore for the acute treatment of migraine in adults.

Cluster Headache

Cluster headache is a series of relatively short but extremely painful headaches that has been described by patients and physicians as one of the most painful conditions in medicine. The suicide rate among these patients is 20 times the U.S. national average, leading to the condition being referred to as the "suicide headache." There are approximately 350,000 cluster headache sufferers in the United States, approximately 225,000 of whom seek treatment each year primarily from the same headache specialists who treat migraine, and we estimate the total annual addressable U.S. market for the acute treatment of these patients in 2018 will be approximately \$400 million. Prior to gammaCore, there was only one FDA-approved, commercially available acute cluster headache treatment, injectable sumatriptan, and according to a 2016 market research survey, 87% of respondents reported dissatisfaction with the then-available treatment options for cluster headache.

Our FDA clearance for the acute treatment of episodic cluster headache is supported by two pivotal trials: ACT 1 and ACT 2. The primary endpoints of these trials were pain reduction and pain freedom within 15 minutes of the onset of the attack, respectively. While neither trial reached statistical significance with respect to its primary endpoint in the combined episodic and chronic cluster headache populations, both trials reached statistical significance (p<0.01 in each trial) on the primary endpoint in their predefined analysis of the episodic cluster headache subpopulation. To further define the benefit of gammaCore for the acute treatment of episodic cluster headache, the data from ACT 1 and ACT 2 were pooled to assess the overall response to each trial's primary endpoint. Results of this pooled analysis reached statistical significance for the proportion of patients achieving mild or pain-free status at 15 minutes for the first attack (p<0.01 for the pooled data) and for the proportion of all treated attacks reaching pain freedom at 15 minutes (p<0.01 for the pooled data). No serious adverse events were attributable to gammaCore in ACT 1 or ACT 2. The most commonly occurring adverse events were application site reactions, all of which were mild, transient, and tended to be self-limiting in nature. Based on these findings, the FDA cleared gammaCore for the acute treatment of episodic cluster headache in adults.

Important advantages of gammaCore over other acute treatments for migraine and episodic cluster headache include its ease of use and suitability to be applied for as many attacks as a patient experiences per day, without the frequency-of-use restrictions and contraindications associated with other treatments.

Our Strategy

Our goal is to be a leader in bioelectronic medicine by using our proprietary non-invasive VNS platform therapy to deliver better patient outcomes. The key elements of our strategy include:

- Drive acceptance of our gammaCore products as a leading headache therapy, introducing it in cluster headache and expanding into migraine. We plan to establish gammaCore as the first-line treatment for episodic cluster headache patients, who have few alternative treatment options available to them. We will then leverage this position to expand into the broader headache market for migraine in the third quarter of 2018.
- **Drive reimbursement of our therapy.** We are actively engaging with over 50 national and regional commercial insurance payors in the United States with the goal of securing reimbursement coverage as a pharmacy benefit. We have agreements with commercial payors in place that we believe, based on our estimates, will provide for reimbursement for gammaCore as a pharmacy benefit for approximately 17 million commercial lives, with such number expected to increase to as many as 45 million lives under these agreements over the next several calendar quarters.
- **Build a leading commercial presence.** We are establishing a robust commercial capacity, including a specialty distribution channel with a concierge service to quickly onboard patients and manage payor interactions, and a direct sales force to target high prescribing neurology specialists and headache centers.

• *Rapidly advance our pipeline.* In 2018, we expect to initiate pivotal trials to support potential label expansion in headache, including additional trials in migraine prevention and migraine in adolescents. In 2018, we also expect to initiate our first major trial in rheumatology, a pivotal trial in Sjögren's syndrome. Over the next 24 months, we anticipate additional sponsored trials will be conducted in both neurology and rheumatology, including in rheumatoid arthritis.

Rheumatology Pipeline

Modulation of the peripheral immune system by VNS provides mechanistic support for the study of gammaCore in the treatment of inflammatory disorders. The systemic anti-inflammatory effects of VNS are believed to result from the activation of nerve fibers that release norepinephrine, causing specialized immune cells to release acetylcholine. This acetylcholine release activates a receptor on other immune cells, which blocks the pathways that promote inflammation. Based on initial positive results from our pilot trials, in 2018 we expect to initiate a pivotal trial designed to support regulatory approvals in our first rheumatologic condition, Sjögren's syndrome, and over the next 24 months, a pivotal trial in rheumatoid arthritis.

Manufacturing

We are the FDA-registered manufacturer of our gammaCore products, and we currently have sufficient capacity to meet anticipated demand for our therapy for the foreseeable future. We rely upon third-party suppliers, located both within and outside the United States, for substantially all of the component parts of gammaCore, including injection molded housings, printed circuit board assemblies, batteries, electrodes and conductive gel. We assemble, program and package our gammaCore products at our Basking Ridge, NJ facility and ship them into our distribution network.

The generation of our proprietary signal does not require custom electronic components. Therefore, we believe long-term supply agreements with our suppliers are not necessary as all the components used in our products are either high-volume, non-custom commodity components, or are readily available from multiple vendors. In cases where single sources exist, we have purchased such components with sufficient reserves to permit continued production of our product should simple design modifications be required.

Commercialization

We believe the significant unmet need and highly-targeted market of episodic cluster headache represents an ideal entry point for our therapy into the headache market, providing an opportunity to gain relevance with treating clinicians in order to support an expansion into migraine. Our commercial strategy will initially focus on the following priorities:

- Drive advocacy of gammaCore as a leading headache therapy. Our strategy is to establish gammaCore as a preferred treatment option, initially in episodic cluster headache and expanding into migraine. We are developing advocacy for gammaCore among key opinion leaders through our clinical program and initial product registry. We currently have in excess of 300 clinicians trained on gammaCore use and over 600 unique prescribers. Of these, 50 are key opinion leaders who will lead a series of programs to educate their colleagues on our clinical data and our specialty pharmacy distributor and its national network of specialty pharmacies.
- **Drive reimbursement of our therapy.** Through our product registry and initial commercialization efforts we are generating prescriptions and patient claims to prompt commercial payors to initiate reimbursement policies for gammaCore. We have engaged over 50 national and regional commercial insurance payors in the United States with the goal of obtaining reimbursement coverage as a pharmacy benefit. gammaCore is currently the subject of agreements with commercial payors that we believe,

based on our estimates, will provide for reimbursement for gammaCore as a pharmacy benefit for approximately 17 million commercial lives, with such number expected to increase to as many as 45 million lives under those agreements over the next several calendar quarters. In addition, our access negotiations have entered the active clinical review stage with more than a dozen additional insurance plans covering approximately 120 million additional commercial lives.

• **Build a leading commercial presence.** We have partnered with an established specialty pharmacy distributor to provide physician and patient support to quickly onboard patients and manage payor interactions. This support includes adjudication of all gammaCore prescriptions, payor claims for reimbursement, and patient support and training. Our sales force targets high-prescribing U.S. neurology practices and headache centers. We currently have a sales force of 18, with three medical science liaisons. We plan to hire an additional 14 territory business managers, who will ultimately cover 6,400 high-prescribers of headache medications.

Risks Associated with our Business

Our business is subject to a number of risks and uncertainties you should be aware of before making an investment decision. These risks are discussed more fully in the "Risk Factors" section immediately following this prospectus summary. These risks include the following:

- We have a history of significant losses. If we do not achieve and sustain profitability, our financial condition could suffer.
- We will be required to obtain additional funds in the future, and these funds may not be available on acceptable terms or at all.
- · If third-party payors do not provide adequate coverage and reimbursement for gammaCore, our business will be negatively impacted.
- Third-party payors may not agree to cover gammaCore through pharmacy benefit plans, which will hinder our commercialization strategy and require changes to our existing business that could delay and negatively impact our ability to generate net sales.
- We must demonstrate to physicians the merits of our gammaCore therapy compared to those of our competitors.
- We only recently began commercializing gammaCore in the United States and we may never achieve market acceptance.
- Our business is subject to extensive governmental regulation that makes it expensive and time consuming for us to bring our gammaCore therapy to market in the United States and to expand the use of our gammaCore therapy to additional therapeutic indications.
- Clinical trials are very expensive, time-consuming and difficult to design and implement and involve uncertain outcomes. Furthermore, results of earlier preclinical studies and clinical trials may not be predictive of results of future preclinical studies or clinical trials.
- If our competitors are better able to develop and market treatments that are safer, more effective, less costly, easier to use or otherwise more attractive than gammaCore, our business will be adversely impacted.
- We rely upon third-party, and in certain cases single-source suppliers for many of the components and materials used in manufacturing gammaCore, and for critical manufacturing and packaging services, making us vulnerable to supply shortages and problems and price fluctuations, which could harm our business.

- We rely on a variety of intellectual property rights, and if we are unable to maintain or protect our intellectual property, our business and results of operations will be harmed.
- Our principal stockholders and management own a significant percentage of our stock and will be able to exert significant control over matters subject to stockholder approval.
- We have identified a material weakness in our internal control over financial reporting. If we are unable to remediate this material
 weakness, or if we experience additional material weaknesses in the future, we may not be able to accurately or timely report our
 financial condition or results of operations and investors may lose confidence in our financial reports and the market price of our
 common stock could be adversely affected.

Corporate Conversion

We currently operate as a Delaware limited liability company under the name Electrocore, LLC. Prior to the closing of this offering, Electrocore, LLC will convert into a Delaware corporation pursuant to a statutory conversion and change its name to electroCore, Inc. As a result of the corporate conversion, the holders of the different classes and series of units of Electrocore, LLC, or Units, and warrants to purchase Units, will become holders of common stock of electroCore, Inc. and warrants to purchase common stock of electroCore, Inc., and, for certain holders, options to purchase our common stock. The number of shares of our common stock, options to purchase our common stock, and warrants to purchase Units will be entitled to receive in the corporate conversion will be determined in accordance with the plan of conversion and our Third Amended and Restated Limited Liability Company Agreement, dated November 21, 2017, or the Operating Agreement, and varies depending on which class and series of Units a holder owns, and the terms of the applicable warrants. The number of shares of common stock certain holders of our Units will receive in connection with the corporate conversion will also vary depending on the initial public offering price set forth on the cover page of this prospectus. See "Corporate Conversion."

The information in this prospectus is based on our estimate that, in the corporate conversion, outstanding Units (including Units originally issued as Profits Interests (as defined herein)) will convert into 23,228,095 shares (or 23,470,034 shares after taking into account shares of common stock issuable in respect of the accrued preferred return on our Series A Preferred Units) of our common stock, outstanding warrants to purchase Units will convert into warrants to purchase 721,965 shares of common stock, and options to purchase 2,146,039 shares of our common stock will be issued to certain holders of Units that were originally issued as Profits Interests, in each case, based on an initial public offering price per share of common stock of \$15.00, which is the midpoint of the price range set forth on the cover page of this prospectus. To the extent that the actual initial public offering price per share for this offering is greater or less than \$15.00, the actual number of shares of common stock, options and warrants to be issued in connection with the conversion will be adjusted accordingly. See "Pricing Sensitivity Analysis" for how the number of shares to be issued in the corporate conversion or issuable thereafter upon exercise of options and warrants would be affected by an initial public offering price per share of common stock at the low-, mid- and high-points of the estimated price range set forth on the cover of this prospectus or if the underwriters' option to purchase additional shares of common stock is exercised in full. Unless the context otherwise requires, and as further described below in "Corporate Conversion," references to Units exclude Units originally issued as Profits Interests.

The purpose of the corporate conversion is to reorganize our corporate structure so that the entity that is offering our common stock to the public in this offering is a corporation rather than a limited liability company and so that our existing investors will own our common stock rather than equity interests in a limited liability company. For further information regarding the corporate conversion, see "Corporate Conversion." References in this prospectus to our capitalization and other matters pertaining to our equity and shares prior to the corporate conversion relate to the capitalization and equity and shares of Electrocore, LLC, and after the corporate conversion, to electroCore, Inc.

Implications of Being an Emerging Growth Company

We are an "emerging growth company" as defined in the Jumpstart Our Business Startups Act of 2012, or the JOBS Act, which permits us to elect not to be subject to certain disclosure and other requirements that otherwise would have been applicable to us had we not been an "emerging growth company." These provisions include:

- only two years of audited financial statements, in addition to any required unaudited interim financial statements, with correspondingly reduced "Management's Discussion and Analysis of Financial Condition and Results of Operations" disclosure in this prospectus; and
- reduced disclosure about our executive compensation arrangements;
- no non-binding advisory votes on executive compensation or golden parachute arrangements; and
- exemption from the auditor attestation requirement in the assessment of our internal control over financial reporting.

We may take advantage of these exemptions for up to five years or such earlier time as we are no longer an "emerging growth company." We will qualify as an "emerging growth company" until the earliest of (1) the last day of our fiscal year following the fifth anniversary of the date of completion of this offering, (2) the last day of our fiscal year in which we have annual gross revenue of \$1.07 billion or more, (3) the date on which we have, during the previous three-year period, issued more than \$1.0 billion in non-convertible debt and (4) the last day of the fiscal year in which we become a "large accelerated filer" as defined in Rule 12b-2 under the Securities Exchange Act of 1934, as amended, or the Exchange Act. Under this definition, we will be an "emerging growth company" upon completion of this offering and could remain an "emerging growth company" until as late as December 31, 2023.

In addition, the JOBS Act provides that an emerging growth company can take advantage of an extended transition period for complying with new or revised accounting standards. This allows an emerging growth company to delay the adoption of certain accounting standards until those standards would otherwise apply to private companies. We have irrevocably elected not to avail ourselves of this exemption from new or revised accounting standards and, therefore, we will comply with new or revised accounting standards when they are required to be adopted by other public companies that are not emerging growth companies.

Corporate Information

Electrocore, LLC was established in Delaware in September 2005. Prior to the closing of this offering, we will complete a corporate conversion pursuant to which electroCore, Inc. will succeed to the business of Electrocore, LLC and its consolidated subsidiaries and affiliate, and the equity holders of Electrocore, LLC will become stockholders, option holders and warrant holders of electroCore, Inc. See "Corporate Conversion." Our principal executive offices are located at 150 Allen Rd., Suite 201, Basking Ridge, New Jersey 07920, and our telephone number at that address is (973) 290-0097. Our website is located at *www.electrocore.com*. Our website, and the information on our website, is neither part of this prospectus nor incorporated by reference herein.

THE OFFERING

Common stock offered by us 4,333,333 shares.

Common stock to be outstanding after this offering 27,561,428 shares (or 28,211,427 shares if the underwriters' option to purchase additional

shares is exercised in full).

Underwriters' option to purchase additional shares of

common stock from us

Risk factors

We have granted the underwriters a 30-day option to purchase an additional 649,999

shares.

Use of proceeds We estimate, based upon an assumed initial public offering price of \$15.00 per share,

which is the midpoint of the price range set forth on the cover page of this prospectus, we will receive net proceeds from the offering of approximately \$56.5 million (or approximately \$65.6 million if the underwriters' option to purchase additional shares is exercised in full), after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. We intend to use the proceeds from this offering as follows: (i) to hire additional territory business managers and expand marketing programs to prepare for the full commercial launch of our gammaCore products; (ii) to fund the research and development of our gammaCore products for other indications in headache and rheumatology; (iii) to fund the build out of a specialty distribution channel for the appricated launch of suppressions in the third guarter of 2018; and (iv) the

for the anticipated launch of gammaCore Sapphire in the third quarter of 2018; and (iv) the remainder to fund working capital and general corporate purposes. See "Use of Proceeds."

You should carefully read and consider the information set forth under the heading "Risk Factors" beginning on page 13 of this prospectus and all other information set forth in this

prospectus before investing in our common stock.

Proposed Nasdag Global Select Market symbol "ECOR"

The common stock to be outstanding after this offering is based on 23,228,095 shares outstanding as if the corporate conversion had been effected as of June 1, 2018, and excludes the following:

- 2,146,039 shares issuable upon the exercise of options that will be issued in connection with the corporate conversion in respect of Units originally issued as Profits Interests, at an exercise price equal to the initial public offering price of \$15.00 per share, which is the midpoint of the price range set forth on the cover page of this prospectus, following the corporate conversion;
- 721,965 shares issuable upon the exercise of warrants outstanding at a weighted-average exercise price of \$12.50 per share following the corporate conversion;
- 2,708,731 shares of common stock reserved for issuance pursuant to future awards under our 2018 Omnibus Equity Incentive Plan, or the 2018 Plan, as well as any increase in the number of shares of common stock reserved for future issuance under the 2018 Plan, which will become effective immediately prior to the consummation of this offering; and

the issuance of 241,939 shares of common stock in satisfaction of approximately \$3.6 million of accrued but unpaid preferred return to
holders of our Series A Preferred Units (which we expect to pay in shares of common stock valued at the offering price) based upon an
assumed offering price of \$15.00 per share, which is the midpoint of the estimated initial offering price range set forth on the cover of
this prospectus.

Unless otherwise indicated, this prospectus assumes:

- the completion of our corporate conversion, as a result of which Units (other than Units originally issued as Profits Interests) will be converted into 21,882,865 shares of common stock of electroCore, Inc. (after giving effect to an 18:1 conversion ratio of all Units, other than the conversion of the Profits Interests—See "Corporate Conversion"), warrants to purchase Units will be converted into the right to purchase 721,965 shares of common stock of electroCore, Inc., and Units that were originally issued as Profits Interests will be converted into 1,345,230 shares of our common stock and, with respect to such Units held by persons who are our employees and consultants at the time of the conversion, options to purchase 2,146,039 shares of common stock of electroCore, Inc., in each case, based on the assumed initial public offering price of \$15.00 per share, which is the midpoint of the price range set forth on the cover page of this prospectus;
- an initial public offering price of \$15.00 per share, which is the midpoint of the estimated initial public offering price range set forth on the cover page of this prospectus;
- no exercise of the outstanding options and warrants described above; and
- no exercise of the underwriters' option to purchase up to an additional 649,999 shares of our common stock.

The number of shares of common stock of electroCore, Inc. that holders of Units will receive in the corporate conversion and the number of shares of common stock that options and warrants will be exercisable for following the corporate conversion will vary depending on the initial public offering price. See "Pricing Sensitivity Analysis" for additional information.

Certain of our direct and indirect unitholders, including entities affiliated with certain of our directors, have indicated an interest in purchasing an aggregate of \$20 million in shares of our common stock in this offering at the initial public offering price per share. However, because indications of interest are not binding agreements or commitments to purchase, the underwriters may determine to sell more, less or no shares in this offering to any of these holders, or any of these holders may determine to purchase more, less or no shares in this offering. The underwriters will receive the same underwriting discount on any shares purchased by these holders as they will on any other shares sold to the public in this offering.

SUMMARY CONSOLIDATED FINANCIAL DATA

The following tables present summary consolidated financial data for our business. You should read this data together with our audited and unaudited consolidated financial statements and related notes appearing elsewhere in this prospectus and the information under the captions "Selected Consolidated Financial Data," "Capitalization" and "Management's Discussion and Analysis of Financial Condition and Results of Operations."

We derived the following consolidated statements of operations data for the three months ended March 31, 2018 and 2017 and the following balance sheet data as of March 31, 2018 from our unaudited consolidated financial statements appearing elsewhere in this prospectus. The unaudited consolidated financial statements include, in the opinion of management, all adjustments that management considers necessary for the fair presentation of the consolidated financial information set forth in those statements. We derived the following consolidated statements of operations data for the years ended December 31, 2017 and 2016 from our audited consolidated financial statements appearing elsewhere in this prospectus. We have prepared the unaudited consolidated financial information set forth below on the same basis as our audited consolidated financial statements and have included all adjustments, consisting of only normal recurring adjustments, that we consider necessary for a fair presentation of our financial position and operating results for such periods. Our historical results are not necessarily indicative of our future results. The results for any interim period are not necessarily indicative of the results that may be expected for a full year.

	Three months ended March 31,				Years ended December 31,			
	2018 2017		_	2017	2016			
	(unaudited) (in thousands, except unit and per unit amounts)							
Consolidated statements of operations:		(III C	nousum	is, except u	int unu	per unit uniot	intoj	
Net sales	\$	81.2	\$	116.9	\$	811.5	\$	254.1
Cost of goods sold		48.9		72.7		518.6		123.7
Gross profit		32.2		44.2		292.9		130.4
Operating expenses								
Research and development	2	,306.3		1,726.6		7,830.9		7,971.3
Selling, general and administrative	6	,824.8		3,059.3		18,106.6	_	7,169.3
Total operating expenses	9	,131.1		4,785.8		25,937.5		15,140.6
Loss from operations	(9	,098.9)		(4,741.6)		(25,644.6)	((15,010.2)
Other expense (income)								
Interest expense		_		1,040.1		6,295.9		234.4
Net loss on settlement of convertible bridge notes		_		_		3,868.8		_
Amortization of debt issuance costs		_		269.2		827.3		536.9
Change in fair value of warrant liability		245.9		178.0		(861.8)		_
Change in fair value of derivative instrument related to convertible bridge notes		_		128.1		348.2		_
Interest and other income, net		(109.3)		_		(99.0)		_
Other		208.1				4.9	_	
Net loss	(9	,443.5)		(6,356.9)		(36,028.9)	((15,781.5)
Less: Net income (loss) attributable to noncontrolling interest		55.0				(236.4)	_	(44.1)
Net loss attributable to Electrocore, LLC, subsidiaries and affiliate	\$ (9	,498.5)	\$	(6,356.9)	\$	(35,792.5)	\$ ((15,737.4)
Pro forma net loss per share data(1):								
Pro forma net loss per share—basic and diluted (unaudited)		(0.36)		(0.72)		(2.16)		(1.80)
Pro forma weighted average number of common shares used to calculate loss per share								
—basic and diluted (unaudited)		49,259	9,	266,116	1	7,127,652	8	3,364,789

(1) We have presented pro forma basic and diluted net loss per share for the three months ended March 31, 2018 and 2017 and the years ended December 31, 2017 and 2016, which consists of our historical net loss attributable to Electrocore LLC, subsidiaries and affiliate, divided by the pro forma basic and diluted weighted average number of shares of common stock outstanding after giving effect to the conversion of all of our outstanding Common Units, Series A Preferred Units and Series B Preferred Units into 23,228,095 shares of our common stock prior to the closing of this offering. Net loss used in calculating net loss per share does not reflect (i) the estimated expenses of this offering or (ii) compensation and expenses for our board of directors and other costs related to operating as a public company. For more information on how we calculate basic and diluted pro forma weighted average number of shares outstanding, see Note 9 to our audited consolidated financial statements included elsewhere in this prospectus.

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		As of March 31, 2018				
	Actual	Actual Pro forma(1) (unaudited; in thousands				
Consolidated balance sheet data:		(unuunteu) in tiivusunus)				
Cash and cash equivalents	\$ 1,520.5	\$ 1,520.5	\$ 59,402.7			
Debt securities and other investments available for sale	25,186.0	25,186.0	25,186.0			
Working capital(3)	23,397.0	23,397.0	79,897.0			
Total assets	31,274.7	31,274.7	86,848.4			
Series A Preferred Units	53,518.5	_	_			
Series B Preferred Units	68,755.5	_	_			
Common Units	40,180.6	_	_			
Common Stock	_	23.2	27.6			
Additional Paid In Capital	22,863.6	185,295.0	241,790.6			
Total members'/stockholders' equity (deficit)	(98,833.1)	23,440.8	79,940.8			

- (1) Pro forma to reflect our conversion from a Delaware limited liability company to a Delaware corporation prior to the closing of this offering, in which all outstanding Units of Electrocore, LLC will be converted into 23,228,095 shares (which excludes 241,939 shares of common stock issuable in satisfaction of the accrued preferred return on our Series A Preferred Units) of common stock of electroCore, Inc. at an assumed initial public offering price of \$15.00 per share, which is the midpoint of the price range set forth on the cover page of this prospectus. The number of shares of common stock of electroCore, Inc. that holders of Units will receive in the corporate conversion and the number of shares of common stock that options and warrants will be exercisable for following the corporate conversion will vary depending on the initial public offering price. See "Pricing Sensitivity Analysis" for more information.
- (2) Pro forma as adjusted gives further effect to the sale of shares of our common stock in this offering at an assumed initial public offering price of \$15.00 per share, which is the midpoint of the price range set forth on the cover page of this prospectus, after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. See "Pricing Sensitivity Analysis" for how some of the information provided above would be affected by the initial public offering price per share of common stock at the low-, mid- and high-points of the estimated price range indicated on the cover of this prospectus or if the underwriters' option to purchase additional shares of common stock is exercised in full.
- (3) We define working capital as current assets less current liabilities.

RISK FACTORS

Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below, together with all of the other information in this prospectus, including our consolidated financial statements and related notes, before investing in our common stock. The risks and uncertainties described below are not the only ones we face. Additional risks and uncertainties that we are unaware of, or that we currently believe are not material, may also become important factors that affect us. If any of the following risks occur, our business, operating results and prospects could be materially harmed. In that event, the price of our common stock could decline, and you could lose part or all of your investment.

Risks Related to our Financial Position, Operating Results and Need for Additional Capital

We have a history of significant losses. If we do not achieve and sustain profitability, our financial condition could suffer.

We have experienced significant net losses, and we expect to continue to incur losses for the foreseeable future as we seek to grow our sales and marketing infrastructure, to increase market acceptance of our gammaCore therapy for the acute treatment of episodic cluster headache, or eCH, and the acute treatment of migraine, fund our research and development activities, to expand our manufacturing capabilities, and to obtain regulatory clearance or approval for other products or indications in the United States and internationally. We incurred net losses of \$35.8 million and \$9.5 million for the year ended December 31, 2017 and the three months ended March 31, 2018, respectively. As of December 31, 2017 and March 31, 2018, our accumulated deficit was \$152.9 million and \$162.4 million, respectively. Our prior losses, combined with expected future losses, have had and will continue to have, for the foreseeable future, an adverse effect on our stockholders' deficit and working capital.

To become and remain profitable, we must successfully commercialize our gammaCore therapy and continue to identify promising new areas of treatment with significant market potential. This will require us to be successful in a range of challenging activities, including completing clinical trials of gammaCore for additional therapeutic indications, developing commercial scale manufacturing processes, obtaining additional marketing clearance or approval from regulatory authorities, obtaining adequate coverage and reimbursement from payors, manufacturing, marketing and selling any current and future product candidates for which we may obtain marketing clearance or approval, and satisfying any post-marketing requirements. We may never succeed in any or all of these activities and, even if we do, we may never generate sufficient revenue to achieve profitability.

Even if we do achieve profitability, we may not be able to sustain or increase profitability in subsequent periods. Our failure to become and remain profitable would decrease the value of our company and could impair our ability to raise capital, maintain our research and development efforts, expand our business or continue our operations. A decline in the value of our company also could cause you to lose all or part of your investment.

We will be required to obtain additional funds in the future, and these funds may not be available on acceptable terms or at all.

Our operations have consumed substantial amounts of cash since inception, and we anticipate our expenses will increase as we expand our commercial sales force in the United States, investigate the use of our gammaCore therapy for the treatment of additional new indications, including Sjögren's syndrome and rheumatoid arthritis, and continue to grow our business and transition to operating as a public company. We believe that our growth will depend, in part, on our ability to fund our efforts to commercialize our gammaCore therapy for the acute treatment of eCH and the acute treatment of migraine, and to pursue research and development activities for additional indications for our gammaCore therapy. Our existing resources may not allow us to conduct all of the activities that we believe would be beneficial for our future growth. As a result, we may need to seek additional funds in the future. If we are unable to raise funds on favorable terms, or at all, we

may not be able to support our commercialization efforts or increase our research and development activities and the growth of our business may be negatively impacted. As a result, we may be unable to compete effectively. For the year ended December 31, 2017 and the three months ended March 31, 2018, our net cash used in operating activities was \$25.3 million and \$9.7 million, respectively, and as of December 31, 2017 and March 31, 2018 we had \$13.2 million and \$1.5 million in cash and cash equivalents, as well as \$24.0 million in marketable securities and \$25.2 million in debt securities and other investments available for sale, respectively. We expect that our existing capital resources, together with the net proceeds from this offering, will enable us to fund our operating expenses and capital expenditure requirements through at least the next 12 months. This estimate is based on assumptions that may prove to be wrong, and we could exhaust our available capital resources sooner than we expect. Changes, including those relating to our development activities and regulatory matters, may occur beyond our control that would cause us to consume our available capital more quickly. Our future capital requirements will depend on many factors, including:

- the outcome, timing of, and costs involved in, seeking and obtaining clearances or approvals from the FDA and other regulatory authorities, including the potential for the FDA and other regulatory authorities to require that we perform more studies, clinical trials or tests on our gammaCore therapy than we currently expect;
- the scope and timing of our investment in our U.S. commercial infrastructure and sales force;
- the research and development activities we intend to undertake in order to expand our headache indications and enhancements to our gammaCore therapy that we intend to pursue;
- the costs of commercialization activities including sales, marketing, manufacturing and distribution;
- the degree and rate of market acceptance of our gammaCore therapy;
- the costs of filing, prosecuting, defending and enforcing any patent claims and other intellectual property rights;
- our need to implement additional infrastructure and internal systems;
- our ability to hire additional personnel to support our operations as a public company; and
- the emergence of competing therapies or other adverse market developments.

To finance these activities, we may seek funds through borrowings or through additional rounds of financing, including private or public equity or debt offerings and collaborative arrangements with corporate partners. We may be unable to raise funds on favorable terms, if at all.

The sale of additional equity or convertible debt securities could result in additional dilution to our stockholders. If we borrow additional funds or issue debt securities, lenders or security holders could have rights superior to holders of our common stock and such indebtedness could contain covenants that will restrict our operations. We might have to obtain funds through arrangements with collaborative partners or others that may require us to relinquish rights to our technologies, therapeutic candidates, or products that we otherwise would not relinquish. If we do not obtain additional resources, our ability to capitalize on business opportunities will be limited, we may be unable to compete effectively and the growth of our business will be harmed.

If third-party payors do not provide adequate coverage and reimbursement for the use of gammaCore, we will be unable to generate significant revenues.

Our success in marketing and commercializing gammaCore depends and will depend in large part on whether U.S. and international government health administrative authorities, private health insurers and other payor organizations provide adequate coverage and reimbursement for the cost of our products. Many third-party payors do not currently cover VNS for any indications other than epilepsy because they have determined all other VNS modalities to be investigational or experimental. If physicians or insurers do not find our clinical data

compelling or wish to wait for additional studies, they may choose not to use or provide coverage and reimbursement for gammaCore. We cannot provide assurance that data we or others may generate in the future will be consistent with that observed in our existing clinical studies, or that our current or future published clinical evidence will be sufficient to obtain adequate coverage and reimbursement for our products.

In the United States, we expect to derive nearly all of our sales from prescriptions of gammaCore from neurologists and primary care physicians. Access to adequate coverage and reimbursement by third-party payors for treatment of cluster and migraine headaches using our gammaCore therapy is essential to the acceptance of our products by customers and patients, because without such coverage and reimbursement, customers and patients will have to be willing to bear the entire cost of our therapy.

Third-party payors, whether foreign or domestic, or governmental or commercial, are developing increasingly sophisticated methods of controlling healthcare costs. In addition, in the United States, no uniform policy of coverage and reimbursement for our gammaCore therapy exists among third-party payors. Therefore, coverage and reimbursement for our gammaCore therapy can differ significantly from payor to payor. In addition, payors continually review new technologies for possible coverage and can, without notice, deny coverage for these new products and procedures. As a result, the coverage determination process is often a time-consuming and costly process that will require us to provide scientific and clinical support for the use of our gammaCore therapy to each payor separately, with no assurance that coverage and adequate reimbursement will be obtained, or maintained if obtained.

Reimbursement systems in international markets vary significantly by country and by region within some countries, and reimbursement approvals must be obtained on a country-by-country basis. In many international markets, a product must be approved for reimbursement before it can be approved for sale in that country. Further, many international markets have government-managed healthcare systems that control reimbursement for new devices and procedures. In most markets, there are private insurance systems as well as government-managed systems. If sufficient and timely coverage and reimbursement is not available for our current or future products, in either the United States or internationally, the demand for our products and our revenues will be adversely affected.

Third-party payors may not agree to cover gammaCore through pharmacy benefit plans, which will hinder our commercialization strategy and require changes to our existing business that could delay and negatively impact our ability to generate revenue.

Our commercialization strategy in the United States advocates for coverage and reimbursement for gammaCore under payors' pharmacy benefit. This pathway may allow patients to obtain our therapy through payment of a co-payment rather than being personally responsible for the costs of our product until meeting an annual deductible. While some commercial payors may provide coverage under their pharmacy benefit plans, other third-party payors, including government health programs and private insurers, may not be willing or able to cover gammaCore under pharmacy benefit plans, which are often limited to coverage of prescription drug products. For example, Medicare's voluntary pharmacy benefit, Medicare Part D, limits coverage under this benefit to prescription drugs, biologicals, and supplies used in the delivery of insulin, but does not cover medical devices like gammaCore or its supplies.

To obtain coverage and reimbursement from Medicare and any other third-party payor that will not cover gammaCore under a pharmacy benefit, we may be required to seek coverage and reimbursement as a medical device or item of durable medical equipment. If needed to obtain third-party payor coverage and reimbursement under an alternative benefit, these potential changes may entail numerous risks, including increased operating expenses, requirements to comply with healthcare regulatory laws, the loss of or delay in obtaining revenue, and uncertainty in our ability to successfully implement the modifications. The failure to obtain recognition by third-party payors under the pharmacy benefit model could require us to modify our commercialization strategy, our distribution model, our pricing, and our operations, any of which could have a material adverse effect on the sales of gammaCore and the results of our operations.

We must demonstrate to physicians the merits of our gammaCore therapy compared to those of our competitors.

Physicians play a significant role in determining the course of a patient's treatment and, as a result, the type of product that will be used to treat a patient. As a result, our success depends, in large part, on effectively marketing our gammaCore therapy to physicians. In order for our gammaCore therapy to gain widespread adoption, we must successfully demonstrate to physicians the merits of our gammaCore therapy for the acute treatment of eCH and the acute treatment of migraine, compared to our competitors' products, including products recently approved or being developed in Phase 3 by Allergan plc, Amgen Inc. (with a co-marketing arrangement with Novartis International AG), Biohaven Pharmacuticals, Inc., Eli Lilly and Company, Alder Biopharmacuticals, Inc. and Teva Pharmaceutical Industries Ltd., for use in treating patients with cluster and migraine headaches, particularly because noninvasive VNS, or nVNS, is relatively new as compared to existing traditional treatments for cluster and migraine headaches. Acceptance of our gammaCore therapy depends on educating physicians as to the distinctive characteristics, perceived benefits, safety, ease of use and cost-effectiveness of our gammaCore therapy as compared to our competitors' products, and communicating to physicians the proper use of our gammaCore therapy. If we are not successful in convincing physicians of the merits of our gammaCore therapy or educating them on the benefits of our gammaCore therapy, they may not prescribe our gammaCore therapy and we may be unable to increase our sales, sustain our growth or achieve profitability. In addition, we believe support of our products by physicians is essential for market acceptance and adoption. If we do not receive support from physicians or long-term data does not show the benefits of using our gammaCore therapy, physicians may not use it. In such circumstances, our results of operations would be materially adversely affected.

Our operating results may vary significantly from quarter to quarter because of seasonality or otherwise.

Our quarterly revenue and results of operations may fluctuate from quarter to quarter due to, among others, the following reasons:

- physician and payor acceptance of our gammaCore therapy;
- · the timing, expense and results of research and development activities, clinical trials and regulatory clearance or approvals;
- fluctuations in our expenses associated with expanding our commercial operations and operating as a public company;
- the introduction of new products, therapies and technologies by competitors;
- the productivity of our sales representatives;
- supplier, manufacturing or quality problems with our products;
- the timing of stocking orders from our distributors;
- · changes in our pricing policies or in the pricing policies of our competitors or suppliers; and
- adverse developments in coverage amounts or government and third-party payors' reimbursement policies.

Our results may also fluctuate on a seasonal basis due to the seasonality of cluster and migraine headache attacks, which could affect the comparability of our results between periods. These seasonal variations are difficult to predict accurately, may vary across different markets, and at times may be entirely unpredictable, which introduces additional risk into our business as we may rely upon forecasts of customer demand to build inventory in advance of anticipated sales. In addition, we believe our limited history commercializing our gammaCore therapy has, in part, made our seasonal patterns more difficult to discern, making it more difficult to predict future seasonal patterns.

Because of these and other factors, it is likely that in some future period our operating results will not meet investor expectations or those of public market analysts.

Any unanticipated change in revenues or operating results is likely to cause our stock price to fluctuate. New information may cause investors and analysts to revalue our business, which could cause a decline in our stock price.

Failure to protect our information technology infrastructure against cyber-based attacks, network security breaches, service interruptions, or data corruption could significantly disrupt our operations and adversely affect our business and operating results.

We rely on information technology and telephone networks and systems, including the internet, to process and transmit sensitive electronic information and to manage or support a variety of business processes and activities, including sales, billing, marketing, procurement and supply chain, manufacturing, and distribution. We also rely on information technology systems to support our proprietary data warehouse, which, among other things, maintains patient product serial numbers and allows for prescription refills at specialty pharmacies through RFID cards. In addition, we use enterprise information technology systems to record, process, and summarize financial information and results of operations for internal reporting purposes and to comply with regulatory, financial reporting, legal, and tax requirements. Our information technology systems, some of which are managed by third-parties, and the information technology systems of third parties may be susceptible to damage, disruptions, or shutdowns due to computer viruses, attacks by computer hackers, failures during the process of upgrading or replacing software, databases or components thereof, power outages, hardware failures, telecommunication failures, user errors, or catastrophic events. Despite the precautionary measures we and third parties have taken to prevent breakdowns in information technology and telephone systems, if these systems are breached or suffer severe damage, disruption, or shutdown and we are unable to effectively resolve the issues in a timely manner, our business and operating results may suffer and we may be subject to related lawsuits.

We may engage in future acquisitions that increase our capital requirements, dilute our stockholders, cause us to incur debt or assume contingent liabilities and subject us to other risks.

We may evaluate various strategic transactions, including licensing or acquiring complementary therapies, products, technologies or businesses. Any potential acquisitions may entail numerous risks, including increased operating expenses and cash requirements, assimilation of operations and products, retention of key employees, diversion of our management's attention and uncertainties in our ability to maintain key business relationships of the acquired entities. In addition, if we undertake acquisitions, we may issue dilutive securities, assume or incur debt obligations, incur large one-time expenses and acquire intangible assets that could result in significant future amortization expense. Moreover, we may not be able to locate suitable acquisition opportunities and this inability could impair our ability to grow or obtain access to technology or products that may be important to the development of our business.

Our reported financial results may be adversely affected by new accounting pronouncements or changes in existing accounting standards and practices.

Generally accepted accounting principles in the United States, or GAAP, are subject to interpretation by the Financial Accounting Standards Board, or FASB, the American Institute of Certified Public Accountants, or the AICPA, the SEC and various bodies formed to promulgate and interpret appropriate accounting principles. For example, in May 2014, the FASB issued ASU 2014-09 Revenue from Contracts with Customers (Topic 606), which outlines a comprehensive revenue recognition model and supersedes most current revenue recognition guidance. We were required to implement this guidance in 2018. The new standard defines a five-step approach for recognizing revenue, which may require a company to use more judgment and make more estimates than under the previous guidance. Amongst the elements in the new standard are requirements for an entity to recognize the amount of revenue to which it expects to be entitled for the transfer of promised goods or services to customers and make expanded disclosures.

The new standard requires us to make a variety of estimates and judgments that are subject to risks and complexities, including identifying performance obligations in the contract, estimating the amount of variable consideration to include in the transaction price, and allocating the transaction price to each separate performance obligation. The new standard may also impact the realization of revenue from units of gammaCore provided in connection with our patient assistance programs (such as our voucher and co-payment assistance programs) and our rebate arrangements.

Such changes to our revenue recognition accounting may significantly affect our results of operations to the extent that actual revenues differ significantly from estimated and previous quarter revenues, or that we are required to accelerate or defer recognition of revenue under certain arrangements, which have caused and may potentially continue to cause the amount of revenue we recognize to vary materially from quarter to quarter. While the adoption of the new standard will not change the cash flows we receive from our contracts with customers, the changes to our reporting practices and the potential fluctuations in our reported revenue could cause a decline and/or fluctuations in the price of our common stock.

Risks Related to Our Business and the Development of Our gammaCore Therapy

Our business is subject to extensive governmental regulation that makes it expensive and time consuming for us to bring our gammaCore therapy to market in the United States and to expand the use of our gammaCore therapy to additional therapeutic indications.

Our gammaCore therapy must comply with regulatory requirements imposed by the FDA in the United States and similar agencies in foreign jurisdictions. These requirements involve lengthy and detailed laboratory and clinical testing procedures, sampling activities, extensive agency review processes, and other costly and time-consuming procedures. It often takes several years to satisfy these requirements, depending on the complexity and novelty of the product. We also are subject to numerous additional licensing and regulatory requirements relating to safe working conditions, manufacturing practices, environmental protection, fire hazard control, and disposal of hazardous or potentially hazardous substances. Some of the most important requirements we must comply with include:

- the Federal Food, Drug, and Cosmetic Act and the FDA's implementing regulations (Title 21 CFR);
- CE mark requirements of the European Union, or EU;
- Medical Device Quality Management System Requirements (ISO 13485:2003);
- Occupational Safety and Health Administration requirements; and
- New Jersey Department of Health Services requirements.

Government regulation may impede our ability to conduct clinical trials and to manufacture and sell our existing therapy and any future products. Government regulation also could delay our marketing of new products for a considerable period of time and impose costly procedures on our activities. The FDA and other regulatory agencies may not clear or approve our gammaCore therapy in additional therapeutic areas that we may pursue, including Sjögren's syndrome and rheumatoid arthritis, on a timely basis, if at all. Any delay in obtaining, or failure to obtain, such clearances or approvals could negatively impact our marketing of our gammaCore therapy and impede our ability to bring future products to market.

Our gammaCore therapy will remain subject to strict regulatory controls on manufacturing, marketing and use. We may be forced to modify or recall a product after release in response to regulatory action or unanticipated difficulties encountered in general use. Any such action could have a material effect on the reputation of our gammaCore therapy and on our business and financial position.

Further, regulations may change, and any additional regulation could limit or restrict our ability to use any of our technologies, which could harm our business. We could also be subject to new international, federal, state

or local regulations that could affect our research and development programs and harm our business in unforeseen ways. If this happens, we may have to incur significant costs to comply with such laws and regulations, which will harm our results of operations.

We may in the future become involved in lawsuits to protect or enforce our intellectual property, which could be expensive and time consuming, and ultimately unsuccessful, and could result in the diversion of significant resources, thereby hindering our ability to effectively commercialize our existing or future products. If we are unable to obtain, maintain, protect, and enforce our intellectual property, our business will be negatively affected.

The markets in which we compete and expect to compete are subject to rapid technological change and frequent litigation regarding patent and other intellectual property rights. It is possible that our patents or licenses may not withstand challenges made by others or protect our rights adequately.

Our success depends in large part on our ability to secure effective patent protection for our products and processes in the United States and internationally. We have filed and intend to continue to file patent applications for various aspects of our technology and trademark applications to protect our brand and business, and copyright applications to protect our software. We seek to obtain and maintain patents and other intellectual property rights to restrict the ability of others to market products or services that misappropriate our technology and work product and/or infringe our intellectual property to compete with our products and services.

However, we face the risks that:

- We may fail to secure necessary patents, potentially permitting competitors to market competing products and services and make, use or sell
 products or offer services that are substantially the same as ours without incurring the sizeable development costs that we have incurred,
 which would adversely affect our ability to compete.
- Patents may not issue from any of our currently pending or future patent applications.
- Our already-granted patents and any future patents may not survive legal challenges to their scope, validity or enforceability, or provide significant protection for us, and they may be challenged in a post grant review or inter partes review proceeding, re-examined or invalidated, and/or may be found to be unenforceable or not cover competing processes, products or services.
- Even if our patents are determined by the U.S. Patent and Trademark Office, or USPTO, foreign patent office, or a court to be valid and enforceable, they may not be drafted or interpreted sufficiently broadly to prevent others from marketing products and services similar to ours or designing around our patents. For example, third parties may be able to develop therapies, or make systems or devices, that are similar to ours but that are not covered by the claims of our patents. Third parties may assert that we or our licensors were not the first to make the inventions covered by our issued patents or pending patent applications. The claims of our issued patents or patent applications when issued may not cover our commercial technology or the future products and services that we develop. We may not have freedom to operate unimpeded by the patent rights of others. Third parties may have dominating, blocking or other patents relevant to our technology of which we are not aware. In addition, because patent applications in the United States and many foreign jurisdictions are typically not published until 18 months after the filing of certain priority documents (or, in some cases, are not published until they issue as patents) and because publications in the scientific literature often lag behind actual discoveries, we cannot be certain that others have not filed patent applications for our technology or our contemplated technology. Any such patent applications may have priority over our patent applications or issued patents, which could further require us to obtain rights from third parties to issued patents or pending patent applications covering such technologies to allow us to commercialize our technology. If another party has filed a U.S. patent application on inventions similar to ours, depending on when the timing of the filing date falls under certain patent laws, we may have to participate in a priority contest

(such as an interference proceeding) declared by the USPTO to determine priority of invention in the United States. There may be prior public disclosures of which we are not aware that could invalidate our patents or a portion of the claims of our patents. Further, we may not develop additional proprietary technologies and, even if we do, they may not be patentable.

- Patent law can be highly uncertain and involve complex legal and factual questions for which important principles remain unresolved. In the United States and in many foreign jurisdictions, policies regarding the breadth of claims allowed in patents can be inconsistent. The U.S. Supreme Court and the U.S. Court of Appeals for the Federal Circuit have made, and will likely continue to make, changes in how the patent laws of the United States are interpreted. Similarly, foreign courts have made, and will likely continue to make, changes in how the patent laws in their respective jurisdictions are interpreted. We cannot predict future changes in the interpretation of patent laws or changes to patent laws that might be enacted into law by U.S. and foreign legislative bodies. Those changes may materially affect our patents or patent applications, our ability to obtain patents, or the patents and patent applications of our licensors. Future protection for our proprietary rights is uncertain because legal means afford only limited protection and may not adequately protect our rights or permit us to gain or keep our competitive advantage, which could adversely affect our financial condition and results of operations.
- Monitoring unauthorized uses of our intellectual property is difficult and costly. From time to time, we seek to analyze our competitors' therapies, products and services, and may in the future seek to enforce our patents or other proprietary rights against potential infringement. However, the steps we have taken to protect our proprietary rights may not be adequate to prevent misappropriation of our intellectual property. We may not be able to detect unauthorized use of, or take appropriate steps to enforce, our intellectual property rights. Our competitors may also independently develop similar technology. Any inability to meaningfully protect our intellectual property could result in competitors offering products that incorporate our product features, which could reduce demand for our gammaCore therapy. In addition, we may need to defend our patents from third-party challenges, including interferences, derivation proceedings, re-examination proceedings, post-grant review, inter partes review, third-party submissions, oppositions, nullity actions, or other patent proceedings. We may need to initiate infringement claims or litigation. Adverse proceedings such as litigation can be expensive, time consuming and may divert the efforts of our technical and managerial personnel, which could in turn harm our business, whether or not we receive a determination favorable to us. In addition, in an infringement proceeding, a court may decide that the patent we seek to enforce is invalid or unenforceable, or may refuse to enjoin the other party from using the technology at issue on the grounds that the patent in question does not cover the technology in question. An adverse result in any litigation could place one or more of our patents at risk of being invalidated or interpreted narrowly. Some of our competitors may be able to devote significantly more resources to intellectual property litigation, and may have patent portfolios, including significantly broader patent portfolios, to assert against us, if we assert our rights against them. Further, because of the substantial discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be disclosed or otherwise compromised during litigation.
- We may not be able to accurately estimate or control our future operating expenses in relation to obtaining, enforcing and/or defending
 intellectual property, which could lead to cash shortfalls. Our operating expenses may fluctuate significantly in the future as a result of the
 costs of preparing, filing, prosecuting, defending and enforcing patent claims and other patent related costs, including litigation costs and the
 results of such litigation.
- We may also be forced to enter into cross-license agreements with competitors in order to manufacture, use, sell, offer for sale, import and/or export products or services that are covered by our competitors' intellectual property rights. If we need to use our intellectual property to enter such cross-license agreements, it may compromise the value of our intellectual property due to the fact that our competitors may be able to manufacture, use, sell, offer for sale, import and/or export our patented technology.

For additional information regarding risks related to our intellectual property, see "—Risks Related to Intellectual Property."

If serious adverse events or other undesirable side effects are identified during the use of our gammaCore therapy in investigator-sponsored trials, it may adversely affect our development of such product candidates.

Undesirable side effects caused by our gammaCore therapy or future product candidates could cause us or regulatory authorities to interrupt, delay or halt nonclinical studies and clinical trials, or could make it more difficult for us to enroll patients in our clinical trials and could, if injuries occur, result in product liability litigation. If serious adverse events or other undesirable side effects or unexpected characteristics of our gammaCore therapy or future product candidates are observed in investigator-sponsored trials, further clinical development of such product candidate may be delayed or we may not be able to continue development of such product candidate at all, and the occurrence of these events could have a material adverse effect on our business. Undesirable side effects caused by our gammaCore therapy or future product candidates could also result in the delay or denial of regulatory clearance or approval by the FDA or other regulatory authorities or in more restrictive labels than we desire.

Clinical trials are very expensive, time-consuming and difficult to design and implement and involve uncertain outcomes. Furthermore, results of earlier preclinical studies and clinical trials may not be predictive of results of future preclinical studies or clinical trials.

The risk of failure for our gammaCore therapy in additional treatment areas is high. It is difficult if not impossible to predict when or if any of our product candidates will receive regulatory clearance or approval in additional areas of indication outside of the acute treatment of eCH and the acute treatment of migraine. To obtain the requisite regulatory clearance or approvals to market and sell our gammaCore therapy in additional indications, we must demonstrate through extensive preclinical studies and clinical trials that it is safe and effective in humans for use in each additional target indication. Clinical testing is expensive and can take many years to complete, and the outcome is inherently uncertain. Failure can occur at any time during the clinical trial process.

In addition, the results of preclinical studies and early clinical trials may not be predictive of the results of later-stage preclinical studies or clinical trials. The results generated to date in preclinical studies or clinical trials for our gammaCore therapy in cluster and migraine headaches do not ensure that later preclinical studies or clinical trials will demonstrate similar results in other therapeutic indications, and it should be noted that we did not achieve the primary endpoints in our pivotal trials for cluster and migraine headaches. There can be no assurance that the FDA and other regulatory authorities will be satisfied by data from our clinical trials even where we believe such data to be compelling. Our gammaCore therapy may fail to show the desired safety and efficacy traits in additional areas of indication in future clinical trials despite having progressed through preclinical and earlier stage clinical trials. Many companies in the pharmaceutical and medical device industries have suffered significant setbacks in later-stage clinical trials due to lack of efficacy or adverse safety profiles, notwithstanding promising results in earlier trials, and we cannot be certain that we will not face similar setbacks. Moreover, preclinical and clinical data are often susceptible to varying interpretations and analyses, and many companies that have believed their product candidates performed satisfactorily in preclinical studies and clinical trials have nonetheless failed to obtain marketing clearance or approval of their products.

In some instances, there can be significant variability in safety or efficacy results between different clinical trials of the same product candidate due to numerous factors, including changes in clinical trial procedures set forth in protocols, differences in the size and type of the patient populations, adherence to the dosing regimen and other clinical trial protocols, and the rate of dropout among clinical trial participants. If we fail to produce positive results in our planned preclinical studies or clinical trials of any of our product candidates, the development timeline and regulatory approval and commercialization prospects for our product candidates, and, correspondingly, our business and financial prospects, would be materially adversely affected.

We depend on enrollment of patients in our clinical trials for our product candidates. If we are unable to enroll patients in our clinical trials, our research and development efforts could be adversely affected.

Identifying and qualifying patients to participate in clinical trials for our gammaCore therapy in additional areas of indications is critical to our success. Successful and timely completion of clinical trials will require that we enroll a sufficient number of patients who remain in the study until its conclusion. If we are unable to enroll a sufficient number of patients in our clinical trials, our timelines for recruiting patients, conducting clinical trials and obtaining regulatory clearance or approval of our gammaCore therapy in additional areas of indication may be delayed. These delays could result in increased costs, delays in advancing our product development, delays in testing the effectiveness of our technology or termination of our clinical trials altogether.

We cannot predict how successful we will be at enrolling patients in future clinical trials. Patient enrollment is affected by other factors including:

- the eligibility criteria for the trial in question;
- the perceived risks and benefits of the product candidate in the trial;
- clinicians' and patients' perceptions as to the potential advantages of the product candidate being studied in relation to other available
 therapies, including any new drugs that may be approved for the indications we are investigating or drugs that may be used off-label for
 these indications;
- the size of the patient population required for analysis of the trial's primary endpoints;
- competition for patients for competitive product candidates undergoing clinical trials;
- the efforts to facilitate timely enrollment in clinical trials;
- the design of the trial;
- the patient referral practices of physicians;
- our ability to recruit clinical trial investigators with the appropriate competencies and experience;
- the ability to monitor patients adequately during and after treatment;
- the risk that patients enrolled in clinical trials will drop out of the trials before completion;
- the ability to obtain and maintain patient consents;
- the number of patients with the indication being studied and the difficult of diagnosing the relevant condition or disease; and
- the proximity and availability of clinical trial sites for prospective patients.

In addition, our clinical trials will compete with other clinical trials that are in the same therapeutic areas as we are targeting, and this competition will reduce the number and types of patients available to us, because some patients who might have opted to enroll in our trials may instead opt to enroll in a trial being conducted by one of our competitors.

Delays in the completion of any clinical trial of our gammaCore therapy will increase our costs, slow down our expansion into additional treatment indications and approval process, and delay or potentially jeopardize our ability to commence product sales and generate future revenue. In addition, many of the factors that may lead to a delay in the commencement or completion of clinical trials may also ultimately lead to the denial of regulatory clearance or approval of our gammaCore therapy in additional treatment indications.

Clinical trials may be delayed, suspended or terminated for many reasons, which will increase our expenses and delay the time it takes to develop and expand our gammaCore therapy in additional treatment indications.

We may experience delays in our ongoing or future preclinical studies or clinical trials, and we do not know whether future preclinical studies or clinical trials will begin on time, need to be redesigned, enroll an adequate

number of patients on time or be completed on schedule, if at all. The commencement and completion of clinical trials for the expansion of our gammaCore therapy in additional areas of indication, such as Sjögren's syndrome and rheumatoid arthritis, may be delayed, suspended or terminated as a result of many factors, including:

- the FDA or other regulators disagreeing as to the design, protocol or implementation of our clinical trials;
- the delay or refusal of regulators or institutional review boards, or IRBs, to authorize us to commence a clinical trial at a prospective trial site;
- · changes in regulatory requirements, policies and guidelines;
- delays or failure to reach agreement on acceptable terms with prospective clinical research organizations, or CROs, and clinical trial sites, the terms of which can be subject to extensive negotiation and may vary significantly among different CROs and trial sites;
- delays in patient enrollment and variability in the number and types of patients available for clinical trials;
- the inability to enroll a sufficient number of patients in trials, particularly in orphan indications, to observe statistically significant treatment effects in the trial;
- having clinical sites deviate from the trial protocol or dropping out of a trial;
- negative or inconclusive results from ongoing preclinical studies or clinical trials, which may require us to conduct additional preclinical studies or clinical trials or to abandon projects that we expect to be promising;
- safety or tolerability concerns that could cause us to suspend or terminate a trial if we find that the participants are being exposed to unacceptable health risks;
- · reports from preclinical or clinical testing of other similar therapies that raise safety or efficacy concerns;
- regulators or IRBs requiring that we or our investigators suspend or terminate clinical research for various reasons, including noncompliance with regulatory requirements or safety concerns, among others;
- lower than anticipated retention rates of patients and volunteers in clinical trials;
- our CROs or clinical trial sites failing to comply with regulatory requirements or meet their contractual obligations to us in a timely manner, or at all, deviating from the protocol or dropping out of a trial;
- delays relating to adding new clinical trial sites;
- difficulty in maintaining contact with patients after treatment, resulting in incomplete data;
- $\bullet \qquad \text{delays in establishing the appropriate dosage levels;} \\$
- the quality of the product candidate falling below acceptable standards;
- the inability to manufacture sufficient quantities of our gammaCore therapy to commence or complete clinical trials; and
- exceeding budgeted costs due to difficulty in accurately predicting costs associated with clinical trials.

We could also encounter delays if a clinical trial is suspended or terminated by us, by the IRBs or Ethics Committees of the institutions at which such trials are being conducted, by the Data Safety Monitoring Board for such trial or by the FDA or other regulatory authorities. Such authorities may suspend or terminate a clinical trial due to a number of factors, including failure to conduct the clinical trial in accordance with regulatory requirements, including the FDA's current Good Clinical Practice, or GCP, regulations, or our clinical protocols,

inspection of the clinical trial operations or trial site by the FDA resulting in the imposition of a clinical hold, unforeseen safety issues or adverse side effects, failure to demonstrate a benefit from using a drug, changes in governmental regulations or administrative actions or lack of adequate funding to continue the clinical trial.

In addition, we may encounter delays if the FDA concludes that our financial relationships with investigators results in a perceived or actual conflict of interest that may have affected the interpretation of a study, the integrity of the data generated at the applicable clinical trial site or the utility of the clinical trial itself. Principal investigators for our clinical trials may serve as scientific advisors or consultants to us from time to time and receive cash compensation and/or stock options in connection with such services. If these relationships and any related compensation to or ownership interest by the clinical investigator carrying out the study result in perceived or actual conflicts of interest, or if the FDA concludes that the financial relationship may have affected interpretation of the study, the integrity of the data generated at the applicable clinical trial site may be questioned and the utility of the clinical trial itself may be jeopardized, which could result in the delay or rejection by the FDA. Any such delay or rejection could prevent us from commercializing any of our products currently in development.

If we experience delays in the commencement or completion of any clinical trial of our product candidates, or if any of our clinical trials are terminated, the commercial prospects of our gammaCore therapy may be harmed, and our ability to generate revenue from sales may be delayed or materially diminished.

We do not know whether any of our future preclinical studies or clinical trials will begin as planned, will need to be restructured or will be completed on schedule, or at all. Any delays in completing our clinical trials will increase our costs, slow down our product candidate development and approval process and jeopardize our ability to commence sales and generate associated revenue. Any of these occurrences may significantly harm our business, financial condition and prospects. In addition, many of the factors that cause, or lead to, a delay in the commencement or completion of clinical trials may also ultimately lead to the denial, suspension or revocation of expanded regulatory clearance or approval of our product candidates. Significant preclinical study or clinical trial delays also could shorten any periods during which we may have the exclusive right to commercialize our product candidates or allow our competitors to bring products to market before we do and impair our ability to successfully commercialize our product candidates.

Even if our products are approved or cleared in the United States and European Economic Area, or EEA, (which is composed of the 28 Member States of the EU plus Norway, Iceland and Liechtenstein), comparable regulatory authorities of additional foreign countries must also approve the manufacturing and marketing of our products in those countries. Approval and clearance procedures vary among jurisdictions and can involve requirements and administrative review periods different from, and greater than, those in the United States or the EEA, including additional preclinical studies or clinical trials. Any of these occurrences may harm our business, financial condition and prospects significantly.

If we fail to properly manage our anticipated growth, our business could suffer.

We have been growing rapidly in recent periods and have a relatively short history of operating as a commercial company. We intend to continue to grow and may experience periods of rapid growth and expansion, which could place a significant additional strain on our limited personnel, information technology systems and other resources. In particular, expanding our direct sales force in the United States requires significant management, financial and other supporting resources. Any failure by us to manage our growth effectively could have an adverse effect on our ability to achieve our development and commercialization goals.

To achieve our goals, we must successfully increase manufacturing output to meet potential expected customer demand. In the future, we may experience difficulties with manufacturing, quality control, component supply, inventory, distribution and shortages of qualified personnel, among other problems. These problems could result in delays in availability of our gammaCore therapy and increases in expenses. Any such delay or increased expense could adversely affect our ability to generate our revenue.

Future growth will also impose significant added responsibilities on management, including the need to identify, recruit, train and integrate additional employees. In addition, rapid and significant growth will place a strain on our administrative and operational infrastructure.

In order to manage our operations and growth we will need to continue to improve our operational and management controls, reporting and information technology systems and financial internal control procedures. If we are unable to manage our growth effectively, it may be difficult for us to execute our business strategy and our operating results and business could suffer.

If we fail to develop and retain an effective direct sales force in the United States, our business could suffer.

In order to commercialize our gammaCore therapy for the acute treatment of eCH and the acute treatment of migraine, in the United States, we must continue to build a substantial direct sales force. As we initiate our commercial launch in eCH and migraine and increase our marketing efforts, we will need to retain, grow and develop our direct sales personnel. We intend to make a significant investment in recruiting and training sales representatives and there is significant competition for such personnel. Once hired, the training process is lengthy because it requires significant education for new sales representatives to achieve the level of clinical competency with our products expected by physicians. Upon completion of the training, our sales representatives typically require lead time in the field to grow their network of accounts and achieve the productivity levels we expect them to reach in any individual territory. Furthermore, the use of our products often requires or benefits from direct support from us. If we are unable to attract, motivate, develop and retain a sufficient number of qualified sales personnel, and if our sales representatives do not achieve the productivity levels we expect them to reach, our revenue will not grow at the rate we expect and our financial performance will suffer. Also, to the extent we hire personnel from our competitors, we may have to wait until applicable non-competition provisions have expired before deploying such personnel in restricted territories or incur costs to relocate personnel outside of such territories, and we have been in the past, and may be subject to future allegations that these new hires have been improperly solicited, or that they have divulged to us proprietary or other confidential information of their former employers. Any of these risks may adversely affect our business.

We only recently began commercializing our gammaCore therapy for the acute treatment of eCH and acute treatment of migraine headache in the United States and we may never achieve market acceptance.

We have a limited history of commercializing our product outside the United States, and a very limited history of selling our gammaCore therapy in the United States. Our gammaCore therapy received *de novo* grant and clearance by the FDA for the acute treatment of pain associated with eCH in adults in April 2017. Additionally, our gammaCore therapy was cleared by the FDA in January 2018 for the acute treatment of pain associated with migraine in adults. Furthermore, our gammaCore therapy has not yet been cleared by the FDA for treatment of chronic cluster headache or preventive treatment of CH or migraine. We have limited experience engaging in commercial activities and limited established relationships with physicians, hospitals and payors as well as third-party suppliers on whom we depend for the manufacture of our product. We may be unable to gain broader market acceptance in the countries in which we have already begun to commercialize our gammaCore therapy, or, if approved by the FDA for additional indications, unable to successfully commercialize it in the United States for a number of reasons, including:

- established competitors with strong relationships with customers, including physicians, hospitals and third-party suppliers;
- limitations in our ability to demonstrate differentiation and advantages of our product compared to competing products and the relative safety, efficacy and ease of use of our product;
- the limited size of our sales force and the learning curve required to gain experience selling our product;
- the inability to obtain sufficient supply of the components for our gammaCore therapy or secure second-source suppliers if our main suppliers are unable to fulfill our orders;

- insufficient financial or other resources to support our commercialization efforts necessary to reach profitability; and
- the introduction and market acceptance of new, more effective or less expensive competing products and technologies.

If our competitors are better able to develop and market CH and migraine treatments that are safer, more effective, less costly, easier to use or otherwise more attractive than our gammaCore therapy, our business will be adversely impacted.

The pharmaceutical and medical device industries are highly competitive and subject to rapid innovation and change. Our success depends, in part, upon our ability to establish a competitive position in the cluster and migraine markets by securing broad market acceptance of our gammaCore therapy. We believe that the primary competitive factors in the cluster and migraine markets are demonstrated clinical effectiveness, product safety, reliability and durability, ease of use, product support and service, minimal side effects and salesforce experience and relationships. We face significant competition in the United States and internationally, which we believe will intensify over time. Many of the companies developing or marketing competing products enjoy several advantages over us, including:

- · more experienced sales forces;
- greater name recognition;
- more established sales and marketing programs and distribution networks;
- earlier regulatory clearance or approval;
- long established relationships with physicians and hospitals;
- significant patent portfolios, including issued U.S. and foreign patents and pending patent applications, as well as the resources to enforce patents against us or any of our third-party suppliers and distributors;
- the ability to acquire and integrate our competitors and/or their technology;
- demonstrated ability to develop product enhancements and new product offerings;
- established history of product reliability, safety and durability;
- the ability to offer rebates or bundle multiple product offerings to offer greater discounts or incentives;
- greater financial and human resources for product development, sales, and marketing; and
- greater experience in and resources for conducting research and development, clinical studies, manufacturing, preparing regulatory submissions, obtaining regulatory clearance or approval for products and marketing approved products.

Our competitors may develop and patent processes or products earlier than us, obtain patents that may apply to us at any time, obtain regulatory clearance or approvals for competing products or processes more rapidly than us or develop more effective or less expensive products or technologies that render our technology or products obsolete or less competitive. We also face fierce competition in recruiting and retaining qualified sales, scientific, and management personnel, establishing clinical trial sites and enrolling patients in clinical studies. If our competitors are more successful than us in these matters, our business may be harmed.

Many of our competitors are large, well-established companies with substantially greater resources than us and have a long history of competing in the CH and migraine markets.

Many of our current and potential competitors are publicly traded, or are divisions of publicly-traded, major pharmaceutical and medical device companies that have substantially greater financial, technical, sales and

marketing resources than we do. We will face steep competition from Allergan plc, Amgen Inc., Novartis International AG and Teva Pharmaceutical Industries Ltd., all of which are better capitalized and have a history of commercializing products around the world. We estimate the addressable U.S. market for eCH and migraine headache will be approximately \$400 million and \$3.8 billion in 2018, respectively. Given the size of the existing and potential market in the United States, we expect that as we continue and try to expand our commercial efforts in the United States our current and future competitors will take aggressive action to protect their current market position. We will face significant competition in establishing our market share in the United States and may encounter unforeseen obstacles and competitive challenges in the United States.

In addition, we face a particular challenge overcoming the long-standing practices by some physicians of using the headache products of our larger, more established competitors. Physicians who use our competitors' products for the treatment of cluster and migraine headache may be reluctant to try new products from a source with which they are less familiar. If these physicians do not try and subsequently adopt our product, then our financial performance will be adversely affected.

Further, a number of our competitors are currently conducting, or we anticipate will be conducting, clinical trials to demonstrate the results of their headache products. The results of these trials may be equivalent to, or potentially better than, the results of our clinical trials, which could have a material adverse effect on us.

Traditional products used to treat CH and migraine have been available for decades, while our gammaCore therapy has only been commercially available in Europe for several years, and for less than one year in the United States, and, as a result, we have a limited track record compared to our competitors.

Traditional products used to treat CH and migraine have been commercially available for decades, while we only began commercializing our gammaCore therapy in Europe to treat CH and migraine several years ago, and within the past year in the United States. Because we have a limited commercial track record compared to our competitors and our gammaCore therapy generally has been utilized by patients for less time than other headache therapies, physicians may be slower to adopt or recommend our gammaCore therapy. Further, while we believe our international commercial experience and our clinical trials support the safety and effectiveness of our gammaCore therapy for the acute treatment of eCH and migraine headache, future studies or patient experience over a longer period of time may indicate that treatment with gammaCore is less attractive than treatment with competitive products or that our gammaCore therapy causes unexpected or serious complications or other unforeseen negative effects. Such results would likely slow the adoption of our gammaCore therapy and significantly reduce our sales, which would harm our business and adversely affect our results of operations. Furthermore, if patients with traditional or other headache products were to experience unexpected or serious complications or other unforeseen effects, the market for our gammaCore therapy may be adversely affected, even if such effects are not directly attributable to our gammaCore therapy.

We may expend our limited resources to pursue a particular product candidate or disease and fail to capitalize on product candidates or diseases that may be more profitable or for which there is a greater likelihood of success.

Because we have limited financial and managerial resources, we focus our research programs and product candidates on specific conditions. As a result, we may forego or delay pursuit of opportunities with other product candidates or other diseases or conditions that may later prove to have greater commercial potential. Our resource allocation decisions may cause us to fail to capitalize on viable commercial products or profitable market opportunities. Our spending on current and future research and development programs and product candidates for specific conditions may not yield any commercially viable products.

Our international operations subject us to certain operating risks, which could adversely impact our results of operations and financial condition.

Sales of gammaCore outside the United States represented a substantial portion of our net sales in the years ended December 31, 2016 and 2017, respectively. In 2012, we began selling gammaCore in the EU through

distributors. As of February 1, 2018, we sell gammaCore directly in 14 countries in the EU and through distributors and agents located in Munich, Germany and Leeds, UK. The sale and shipment of gammaCore across international borders, as well as the purchase of components from international sources, subjects us to U.S. and foreign governmental trade, import and export, and customs regulations and laws.

Compliance with these regulations and laws is costly and exposes us to penalties for non-compliance. Other laws and regulations that can significantly impact us include various anti-bribery laws, including the U.S. Foreign Corrupt Practices Act, as well as export controls laws. Any failure to comply with applicable legal and regulatory obligations could impact us in a variety of ways that include, but are not limited to, significant criminal, civil and administrative penalties, including imprisonment of individuals, fines and penalties, denial of export privileges, seizure of shipments, restrictions on certain business activities and exclusion or debarment from government contracting.

The administration of President Trump has publicly supported potential trade proposals, including import tariffs and other tariffs, including the U.S. administration's recent introduction of tariffs on China and China's retaliatory tariffs on certain products from the United States, as well as modifications to international trade policy and other changes that may affect U.S. trade relations with other countries. We source a significant amount of the components used in gammaCore from Chinaese sources so any tariffs or other trade restrictions impacting the import of these components from Chinae could have a material adverse impact on us.

Our international operations expose us and our distributors to risks inherent in operating in foreign jurisdictions. These risks include:

- difficulties in enforcing our intellectual property rights and in defending against third-party threats and intellectual property enforcement actions against us, our distributors or any of our third-party suppliers;
- reduced or varied protection for intellectual property rights in some countries;
- pricing pressure that we may experience internationally;
- a shortage of high-quality salespeople and distributors;
- third-party reimbursement policies that may require some of the patients who receive our products to directly absorb medical costs or that
 may necessitate the reduction of the selling prices of gammaCore;
- competitive disadvantage to competition with established business and customer relationships;
- foreign currency exchange rate fluctuations;
- the imposition of additional U.S. and foreign governmental controls or regulations;
- economic instability;
- changes in duties and tariffs, license obligations and other non-tariff barriers to trade;
- the imposition of restrictions on the activities of foreign agents, representatives and distributors;
- scrutiny of foreign tax authorities which could result in significant fines, penalties and additional taxes being imposed on us;
- laws and business practices favoring local companies;
- longer payment cycles;
- · difficulties in maintaining consistency with our internal guidelines;
- difficulties in enforcing agreements and collecting receivables through certain foreign legal systems;
- the imposition of costly and lengthy new export licensing requirements;

- the imposition of U.S. or international sanctions against a country, company, person or entity with whom we do business that would restrict or prohibit continued business with the sanctioned country, company, person or entity; and
- the imposition of new trade restrictions.

If we experience any of these risks, our sales in non-U.S. jurisdictions may be harmed and our results of operations would suffer.

Our results may be impacted by changes in foreign currency exchange rates.

We have international operations and, as a result, an increase in the value of the U.S. dollar relative to foreign currencies could require us to reduce our selling price or risk making our products less competitive in international markets, or our costs could increase. Also, if our international sales increase, we may enter into a greater number of transactions denominated in non-U.S. dollars, which could expose us to increased foreign currency risks, including currency fluctuations and exchange rate risks. We do not currently engage in any hedging transactions. If we are unable to address these risks and challenges effectively, our international operations may not be successful and our business could be harmed.

We may not be able to establish or strengthen our brand.

We believe that establishing and strengthening the electroCore and gammaCore brands is critical to achieving widespread acceptance of our gammaCore therapy to treat eCH and migraine, particularly because of the highly competitive nature of the market for headache therapies. Promoting and positioning our brand will depend largely on the success of our marketing efforts and our ability to provide physicians with a reliable product for successful treatment of cluster and migraine headaches. Given the established nature of our competitors, and our lack of commercialization in the United States, it is likely that our future marketing efforts will require us to incur significant additional expenses. These brand promotion activities may not yield increased sales and, even if they do, any sales increases may not offset the expenses we incur to promote our brand. If we fail to successfully promote and maintain our brand, or if we incur substantial expenses in an unsuccessful attempt to promote and maintain our brand, our gammaCore therapy may not be accepted by physicians, which would adversely affect our business, results of operations and financial condition.

We may face product liability claims that could result in costly litigation and significant liabilities.

Manufacturing and marketing of gammaCore, and clinical testing of our gammaCore therapy to initially treat eCH and migraine, may expose us to individual product liability claims, class action lawsuits or actions, and other individual or mass tort claims. Although we have, and intend to maintain, liability insurance, the insurers may deny our claims, coverage limits of our insurance policies may not be adequate and one or more successful claims brought against us may have a material adverse effect on our business and results of operations. These risks are heightened in the event any product recalls take place as a result of any product design defect or defect in product warnings or labeling. Product liability claims could negatively affect our reputation, our continued product sales and our ability to obtain and maintain regulatory clearance or approval for our products.

If we fail to retain our key executives or recruit and hire new employees, our operations and financial results may be adversely effected while we attract other highly qualified personnel.

Our future success depends, in part, on our ability to continue to retain our executive officers and other key employees and recruit and hire new employees. All of our executive officers and other employees are at-will employees, and therefore may terminate employment with us at any time with no advance notice. The replacement of any of our key personnel likely would involve significant time and costs, may significantly delay or prevent the achievement of our business objectives and may harm our business.

In addition, many of our employees have become or will soon become vested in a substantial amount of stock or number of stock options. Our employees may be more likely to leave us if the shares they own or the shares underlying their vested options have significantly appreciated in value relative to the original purchase prices of the shares or the exercise prices of the options, or if the exercise prices of the options that they hold are significantly below the market price of our common stock. Further, our employees' ability to exercise those options and sell their stock in a public market after the closing of this offering may result in a higher than normal turnover rate.

Our future success also depends on our ability to retain executive officers and other key employees and attract new key employees. Many executive officers and employees in the pharmaceutical and medical device industries are subject to strict non-compete or confidentiality agreements with their employers, which may include our main competitors. In addition, some of our existing and future employees are or may be subject to confidentiality agreements with previous employers. Our competitors may allege breaches of and seek to enforce such non-compete agreements or initiate litigation based on such confidentiality agreements. Such litigation, whether or not meritorious, may impede our ability to attract or use executive officers and other key employees who have been employed by our competitors and may result in intellectual property claims against us. It is likely that we will experience similar aggressive lawsuit tactics by our competitors as they seek to protect their market position, particularly as we prepare to expand in new or existing markets.

Our employees, independent contractors, consultants, commercial collaborators, principal investigators, CROs and vendors may engage in misconduct or other improper activities, including non-compliance with regulatory standards and requirements.

We are exposed to the risk that our employees, independent contractors, consultants, commercial collaborators, principal investigators, CROs and vendors may engage in fraudulent conduct or other illegal activity. Misconduct by these parties could include intentional, reckless or negligent conduct or unauthorized activities that violates (1) the laws and regulations of the FDA and other similar regulatory authorities, including those laws requiring the reporting of true, complete and accurate information to such authorities, (2) manufacturing standards, (3) federal and state data privacy, security, fraud and abuse and other healthcare laws and regulations in the United States and abroad and (4) laws that require the true, complete and accurate reporting of financial information or data. In particular, sales, marketing and business arrangements in the healthcare industry are subject to extensive laws and regulations intended to prevent fraud, misconduct, kickbacks, self-dealing and other abusive practices. These laws and regulations may restrict or prohibit a wide range of pricing, discounting, marketing and promotion, sales commission, customer incentive programs and other business arrangements. Misconduct by these parties could also involve the improper use of individually identifiable information, including information obtained in the course of clinical trials, creating fraudulent data in our preclinical studies or clinical trials or illegal misappropriation of product candidates, which could result in regulatory sanctions and serious harm to our reputation.

Although we intend to adopt a code of business conduct and ethics, it is not always possible to identify and deter misconduct by employees and other third parties, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to be in compliance with such laws or regulations. Additionally, we are subject to the risk that a person or government could allege such fraud or other misconduct, even if none occurred. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those actions could have a significant impact on our business, including the imposition of significant civil, criminal and administrative penalties, including damages, fines, disgorgement, imprisonment, exclusion from participation in government healthcare programs, such as Medicare and Medicaid, contractual damages, reputational harm and the curtailment or restructuring of our operations.

Risk Related to our Dependence on Third Parties

We rely upon third-party, single-source, and in certain cases sole-source, suppliers for many of the components and materials used in gammaCore, and for critical manufacturing and packaging services, making us vulnerable to supply shortages and problems and price fluctuations, which could harm our business.

A number of the critical components used in gammaCore are supplied to us from single-source, or in certain cases sole-source, suppliers. Our suppliers may encounter problems during manufacturing for a variety of reasons, including, for example, failure to follow specific protocols and procedures, failure to comply with applicable legal and regulatory requirements, equipment malfunction and environmental factors, failure to properly conduct their own business affairs, and infringement of third-party intellectual property rights, any of which could delay or impede their ability to meet our requirements. Our ability to supply gammaCore commercially depends, in part, on our ability to obtain a supply of these components that has been manufactured in accordance with regulatory requirements and in sufficient quantities for commercialization and clinical testing. We have not entered into manufacturing, supply or quality agreements with all of our single-source and sole-source suppliers, some of which supply components critical to our products. Although we believe that long-term agreements with our suppliers are not necessary as all the components in our products are either high-volume, non-custom commodity components or are readily available from multiple vendors, there can be no assurance that our single-source or sole-source suppliers will be able to meet our demand for their products and services, either because of the informal nature of our arrangements with those suppliers, or our limited experience with those suppliers, or due to our relative importance as a customer to those suppliers. It may be difficult for us to assess their ability to timely meet our demand in the future based on past performance. While our suppliers have generally met our demand for their products on a timely basis in the past, they may subordinate our needs in the future to their other customers.

Establishing additional or replacement suppliers for the components or processes used in gammaCore, if required, may not be accomplished quickly. If we are able to find a replacement supplier, such replacement supplier would need to be qualified and may require additional regulatory authority approval, which could result in further delay. While we seek to maintain adequate inventory of the single-source or sole-source components and materials used in our products, any interruption or delay in the supply of components or materials, or our inability to obtain components or materials from alternate sources at acceptable prices in a timely manner, could impair our ability to meet the demand of our customers and cause them to cancel orders.

If our third-party suppliers fail to deliver the required commercial quantities of materials, or the level of services we require, on a timely basis and at commercially reasonable prices, and we are unable to find one or more replacement suppliers capable of production at a substantially equivalent cost in substantially equivalent volumes and quality and on a timely basis, the continued commercialization of gammaCore would be impeded, delayed, limited or prevented, which could harm our business, results of operations, financial condition and prospects.

We rely in part on a small group of third-party distributors to effectively distribute our products outside the United States.

We depend in part on a small group of third-party distributors for the marketing and selling of our products in certain territories in Europe. We depend on these distributors' efforts to market our products, yet we are unable to control their efforts completely. These distributors typically sell a variety of other non-competing products that may limit the resources they dedicate to selling our gammaCore therapy. In addition, we are unable to ensure that our distributors comply with all applicable laws regarding the sale of our products. If our distributors fail to effectively market and sell gammaCore in full compliance with applicable laws, our operating results and business may suffer. Recruiting and retaining qualified third-party distributors and training them in our technology and product offerings requires significant time and resources. To develop and expand our distribution, we must continue to scale and improve our processes and procedures that support our distributors.

Further, if our relationship with a successful distributor terminates, we may be unable to replace that distributor without disruption to our business. If we fail to maintain positive relationships with our distributors, fail to develop new relationships with other distributors, including in new markets, fail to manage, train or incentivize existing distributors effectively, or fail to provide distributors with competitive products on attractive terms, or if these distributors are not successful in their sales efforts, our revenue may decrease and our operating results, reputation and business may be harmed.

We intend to rely upon only one third-party distributor to distribute our products in the United States.

We intend to rely upon one specialty pharmaceutical distributor, who collaborates with a large network of specialty pharmacies, to distribute our products in the United States. We depend on this distributor to distribute our products, which includes providing adjudication of prescriptions and reimbursement claims, as well as patient support and training services, but are unable to control its performance. This distributor may distribute a variety of other specialty pharmaceutical products that may limit the resources dedicated to the distribution of our products. In addition, we are unable to ensure that this distributor will comply with all applicable laws related to the distribution of our products. If this distributor fails to distribute our products in compliance with applicable laws, our operating results and business may suffer. Recruiting, training and retaining third-party distributors in the distribution of our proprietary product offerings requires significant time and resources. In addition, an affiliate of this distributor provides pharmaceutical patient hub services for patients that are prescribed our gammaCore therapy, and has been electronically integrated with our proprietary data warehouse system and web portal. If our relationship with this distributor terminates, we may be unable to replace this distributor without disruption to our business. Any new distributor may not integrate as seamlessly with our data warehouse system and web portal, leading to disruptions in service for patients that are prescribed our therapy, which may cause these patients to seek alternative therapy. Our distributor also may not pay us on time or at all due to disputes, financial issues or bankruptcy events. Any such payment issues may materially affect our operating results until we are able to resolve the issues, or find a sufficient replacement for our distributor.

We rely on third parties to conduct and support our clinical trials, and those third parties may not perform satisfactorily, including failing to meet deadlines for the completion of such trials.

We do not independently conduct clinical trials for our product candidates. We rely on third parties, such as CROs, clinical data management organizations, medical institutions and clinical investigators, to perform this function. Our reliance on these third parties for clinical development activities reduces our control over these activities but does not relieve us of our responsibilities. Furthermore, some of the sites for our clinical trials are outside the United States. The performance of these sites may be adversely affected by various issues, including less advanced medical infrastructure, lack of familiarity with conducting clinical trials in accordance with U.S. standards, insufficient training of personnel, communication difficulties or change in local regulations. We remain responsible for ensuring that each of our clinical trials is conducted in accordance with the general investigational plan and protocols for the study. Moreover, the FDA requires us to comply with GCP for conducting, recording and reporting the results of clinical trials to assure that data and reported results are credible and accurate and that the rights, integrity and confidentiality of patients in clinical trials are protected. Furthermore, these third parties may also have relationships with other entities, including our competitors. If these third parties do not successfully carry out their contractual duties, meet expected deadlines or conduct our clinical trials in accordance with regulatory requirements or our stated protocols, we will not be able to obtain, or may be delayed in obtaining, regulatory clearance or approval for our product candidates and will not be able to, or may be delayed in our efforts to, successfully commercialize our products.

We also rely on other third parties to store and distribute supplies for our clinical trials. Any performance failure on the part of our existing or future distributors could delay clinical development or regulatory clearance or approval of our product candidates or commercialization of our products, producing additional losses and depriving us of potential product revenues.

If we do not successfully enter into future collaborations for the development and commercialization of our gammaCore therapy in international markets our business may be harmed.

We may choose to enter into collaboration agreements with third parties with respect to development and commercialization of our gammaCore therapy in international markets. We will have limited control over the amount and timing of resources that our collaborators dedicate to the development or commercialization of our gammaCore therapy. Our ability to generate revenues from these arrangements will depend in part on our collaborators' abilities to successfully perform the functions assigned to them in these arrangements.

Collaborations involving our gammaCore therapy, such as our collaboration with Desitin, are subject to numerous risks, which may include the following:

- collaborators have significant discretion in determining the efforts and resources that they will apply to a collaborations;
- collaborators may not pursue development and commercialization of our product candidates or may elect not to continue or renew development or commercialization programs based on clinical trial results, changes in their strategic focus due to the acquisition of competitive products, availability of funding or other external factors, such as a business combination that diverts resources or creates competing priorities;
- collaborators may delay clinical trials, provide insufficient funding for a clinical trial, stop a clinical trial, abandon a product candidate, repeat or conduct new clinical trials or require a new formulation of a product candidate for clinical testing;
- collaborators could independently develop, or develop with third parties, products that compete directly or indirectly with our products or product candidates;
- a collaborator with marketing and distribution rights to one or more products may not commit sufficient resources to their marketing and distribution:
- collaborators may not properly maintain or defend our intellectual property rights or may use our intellectual property or proprietary information in a way that gives rise to actual or threatened litigation that could jeopardize or invalidate our intellectual property or proprietary information or expose us to potential liability;
- disputes may arise between us and a collaborator that cause the delay or termination of the research, development or commercialization of our product candidates or that result in costly litigation or arbitration that diverts management attention and resources;
- collaborations may be terminated and, if terminated, may result in a need for additional capital to pursue further development or commercialization of the applicable product candidates; and
- collaborators may own or co-own intellectual property covering our products that result from our collaborating with them, and in such cases, we would not have the exclusive right to commercialize such intellectual property.

Any termination or disruption of any future collaboration could result in delayed development of product candidates, increased cost to develop product candidates or termination of development of a product candidate.

If we are not able to establish or maintain collaborations, we may have to alter some of our future development and commercialization plans.

Our product development programs and the potential commercialization of our gammaCore therapy will require substantial additional capital to fund expenses. For some of our product candidates, we may decide to collaborate with pharmaceutical and medical device companies for the future development and potential commercialization of those product candidates. Furthermore, we may find that our programs require the use of proprietary rights held by third parties, and the growth of our business may depend in part on our ability to acquire, in-license or use these proprietary rights.

We face significant competition in seeking appropriate collaborators, and a number of more established companies may also be pursuing strategies to license or acquire third-party intellectual property rights that we may consider attractive. These established companies may have a competitive advantage over us due to their size, financial resources and greater clinical development and commercialization capabilities. In addition, companies that perceive us to be a competitor may be unwilling to assign or license rights to us. Whether we reach a definitive agreement for a collaboration will depend upon, among other things, our assessment of the collaborator's resources and expertise, the terms and conditions of the proposed collaboration and the proposed collaborator's evaluation of a number of factors. Those factors may include the design or results of clinical trials, the likelihood of clearance or approval by the FDA, compliance with the Essential Requirements of the EU Medical Devices Directive or similar foreign regulations, the potential market for the subject product candidate, the costs and complexities of manufacturing and delivering such product candidate to patients, competing products, the existence of uncertainty with respect to our ownership of technology, which can exist if there is a challenge to such ownership without regard to the merits of the challenge, and industry and market conditions generally. The collaborator may also consider alternative product candidates or technologies for similar indications that may be available to collaborate on and whether such a collaboration could be more attractive than the one with us for our product candidate. We may also be restricted under existing license agreements from entering into agreements on certain terms with potential collaborators. Collaborations are complex and time-consuming to negotiate and document. In addition, there have been a significant number of recent business combinations among large pharmaceutical companies that have resulted in a reduced number of potential future collaborators. We may not be able to negotiate collaborations on a timely basis, on acceptable terms, or at all. Even if we are able to obtain a license to intellectual property of interest, we may not be able to secure exclusive rights, in which case others could use the same rights and compete with us. If we are unable to successfully obtain rights to required third-party intellectual property rights or maintain the existing intellectual property rights we have, we may have to curtail the development of such product candidate, reduce or delay its development program or one or more of our other development programs, delay its potential commercialization or reduce the scope of any sales or marketing activities, or increase our expenditures and undertake development or commercialization activities at our own expense. If we elect to increase our expenditures to fund development or commercialization activities on our own, we may need to obtain additional capital, which may not be available to us on acceptable terms, or at all. If we do not have sufficient funds, we may not be able to further develop our product candidates or bring them to market and generate product revenue.

We, or third-party manufacturers on whom we rely, may be unable to successfully scale-up manufacturing of our gammaCore therapy or its component parts in sufficient quality and quantity, which would delay or prevent us from developing and commercializing any approved products.

In order to conduct clinical trials of our gammaCore therapy and commercialize any approved products, we, or our manufacturers, will need to manufacture them in large quantities. We, or our manufacturers, may be unable to successfully increase manufacturing capacity in a timely or cost-effective manner, or at all. In addition, quality issues may arise during scale-up activities. If we, or any of our manufacturers, are unable to successfully scale up manufacturing in sufficient quality and quantity, the development, testing, and clinical trials of our gammaCore therapy may be delayed or infeasible, and regulatory clearance, approval or commercial launch of any resulting product may be delayed or not obtained, which could significantly harm our business. If we are unable to obtain or maintain third-party manufacturing for commercial supply of our product candidates, or to do so on commercially reasonable terms, we may not be able to develop and commercialize our gammaCore therapy successfully.

We are required to maintain high levels of inventory due to our single-source supply vendors, which could consume a significant amount of our resources, reduce our cash flows and lead to inventory impairment charges.

Our gammaCore therapy consists of a substantial number of individual components. In order to market and sell gammaCore effectively, we often must maintain high levels of inventory of the product and its components.

The manufacturing process requires lengthy lead times during which components of our gammaCore therapy may become obsolete, and we may over-or under-estimate the amount needed of a given component, in which case we may expend extra resources or be constrained in the amount of end product that we can produce. As compared to direct manufacturers, our dependence on third-party manufacturers exposes us to greater lead times increasing our risk of inventory obsolesce comparatively.

Risks Related to Intellectual Property

We rely on a variety of intellectual property rights, and if we are unable to maintain or protect our intellectual property, our business and results of operations will be harmed.

Our commercial success will depend, in part, on our ability to obtain and maintain intellectual property protection for our products, processes, and related technologies in the United States, Europe and elsewhere, successfully defend our intellectual property rights against third-party challenges and successfully enforce our intellectual property rights to prevent third-party infringement. While we rely primarily upon a combination of patents, copyrights, trademarks and trade secret protection, as well as nondisclosure, confidentiality and other contractual agreements to protect the intellectual property related to our brands, products and other proprietary technologies, protection derived from patents is relatively limited.

The process of obtaining patent protection is expensive and time-consuming, and we may not be able to prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. We may choose not to seek patent protection for certain innovations or products and may choose not to pursue patent protection in certain jurisdictions, and under the laws of certain jurisdictions, patents or other intellectual property rights may be unavailable or limited in scope and, in any event, any patent protection we obtain may be limited. As a result, some of our products are not, and in the future may not be, protected by patents. We generally apply for patents in those countries where we intend to make, have made, use, offer for sale, or sell products and where we assess the risk of infringement to justify the cost of seeking patent protection. However, we do not seek protection in all countries where we sell products and we may not accurately predict all the countries where patent protection would ultimately be desirable. If we fail to timely file a patent application in any such country or major market, we may be precluded from doing so at a later date. Competitors may use our technologies in jurisdictions where we have not obtained patent protection to develop their own products and, further, may export otherwise infringing products to territories in which we have patent protection that may not be sufficient to terminate infringing activities.

Furthermore, we cannot guarantee that any patents will be issued from any pending or future owned or licensed patent applications, or that any current or future patents will provide us with any meaningful protection or competitive advantage. Even if issued, existing or future patents may be challenged, including with respect to ownership, narrowed, invalidated, held unenforceable or circumvented, any of which could limit our ability to prevent competitors and other third parties from developing and marketing similar products or limit the length of terms of patent protection we may have for our products and technologies. Other companies may also design around technologies we have patented, licensed or developed. In addition, the issuance of a patent does not give us the right to practice the patented invention. Third parties may have blocking patents that could prevent us from marketing our products or practicing our own patented technology.

The patent positions of pharmaceutical and medical device companies can be highly uncertain and involve complex legal, scientific and factual questions for which important legal principles remain unresolved. The standards that the USPTO and its foreign counterparts use to grant patents are not always applied predictably or uniformly. Changes in either the patent laws, implementing regulations or the interpretation of patent laws may diminish the value of our rights. The legal systems of certain countries do not protect intellectual property rights to the same extent as the laws of the United States, and many companies have encountered significant problems in protecting and defending such rights in foreign jurisdictions.

Because patent applications in the United States, Europe and many other jurisdictions are typically not published until 18 months after filing, or in some cases not at all, and because publications of discoveries in

scientific literature lag behind actual discoveries, we cannot be certain that we were the first to conceive or reduce to practice the inventions claimed in our issued patents or pending patent applications, or that we were the first to file for protection of the inventions set forth in our patents or pending patent applications. We can give no assurance that all of the potentially relevant art relating to our patents and patent applications has been found; overlooked prior art could be used by a third party to challenge the validity, enforceability and scope of our patents or prevent a patent from issuing from a pending patent application. As a result, we may not be able to obtain or maintain protection for certain inventions. Therefore, the validity, enforceability and scope of our patents in the United States, Europe and in other countries cannot be predicted with certainty and, as a result, any patents that we own or license may not provide sufficient protection against our competitors.

Third parties may challenge any existing patent or future patent we own or license through adversarial proceedings in the issuing offices or in court proceedings, including as a response to any assertion of our patents against them. In any of these proceedings, a court or agency with jurisdiction may find our patents invalid and/or unenforceable, or even if valid and enforceable, insufficient to provide protection against competing products and services sufficient to achieve our business objectives. We may be subject to a third-party pre-issuance submission of prior art to the USPTO, or reexamination by the USPTO if a third party asserts a substantial question of patentability against any claim of a U.S. patent we own or license. The adoption of the Leahy-Smith America Invents Act, or the Leahy-Smith Act, in September 2011 established additional opportunities for third parties to invalidate U.S. patent claims, including inter partes review and post-grant review proceedings. Outside of the United States, patents we own or license may become subject to patent opposition or similar proceedings, which may result in loss of scope of some claims or the entire patent. In addition, such proceedings are very complex and expensive, and may divert our management's attention from our core business. If any of our patents are challenged, invalidated, circumvented by third parties or otherwise limited or expire prior to the commercialization of our products, and if we do not own or have exclusive rights to other enforceable patents protecting our products or other technologies, competitors and other third parties could market products and use processes that are substantially similar to, or superior to, ours and our business would suffer.

The degree of future protection for our proprietary rights is uncertain because legal means afford only limited protection and may not adequately protect our rights or permit us to gain or keep a competitive advantage. For example:

- others may be able to develop products that are similar to, or better than, ours in a way that is not covered by the claims of our patents;
- we might not have been the first to conceive or reduce to practice the inventions covered by our patents or pending patent applications;
- we might not have been the first to file patent applications for our inventions;
- · any patents that we obtain may not provide us with any competitive advantages or may ultimately be found invalid or unenforceable; or
- we may not develop additional proprietary technologies that are patentable.

We may become involved in lawsuits to protect or enforce our patents, which could be expensive, time-consuming and unsuccessful.

Competitors may infringe our patents. To counter infringement or unauthorized use, we may be required to file one or more lawsuit and assert infringement claims, which can be expensive and time-consuming. In addition, in an infringement proceeding, a court may decide that a patent of ours is invalid or unenforceable, or may refuse to enjoin the other party from using the technology at issue on the grounds that our patents do not cover the technology in question. The standards that courts use to interpret patents are not always applied predictably or uniformly and can change, particularly as new technologies develop. As a result, we cannot predict with certainty how much protection, if any, will be given to our patents if we attempt to enforce them and they

are challenged in court. Further, even if we prevail against an infringer in U.S. district court, there is always the risk that the infringer will file an appeal and the district court judgment will be overturned at the appeals court and/or that an adverse decision will be issued by the appeals court relating to the validity or enforceability of our patents. An adverse result in any litigation proceeding could put one or more of our patents at risk of being invalidated or interpreted in a manner insufficient to achieve our business objectives.

Our commercial success depends significantly on our ability to operate without infringing upon the intellectual property rights of third parties.

The pharmaceutical and medical device industries are subject to rapid technological change and substantial litigation regarding patent and other intellectual property rights. Our competitors in both the United States and abroad, many of which have substantially greater resources and have made substantial investments in patent portfolios and competing technologies, may have applied for or obtained or may in the future apply for or obtain, patents that will prevent, limit or otherwise interfere with our ability to make, use and sell our products and services. Numerous third-party patents exist in the fields relating to our products and services, and it is difficult for industry participants, including us, to identify all third-party patent rights relevant to our products, services and technologies. Moreover, because some patent applications are maintained as confidential for a certain period of time, we cannot be certain that third parties have not filed patent applications that cover our products, services and technologies.

Patents could be issued to third parties that we may ultimately be found to infringe. Third parties may have or obtain valid and enforceable patents or proprietary rights that could block us from developing products using our technology. Our failure to obtain or maintain a license to any technology that we require may materially harm our business, financial condition and results of operations. Furthermore, we would be exposed to a threat of litigation.

From time to time, we may be party to, or threatened with, litigation or other proceedings with third parties, including non-practicing entities, who allege that our products, components of our products, services, and/or proprietary technologies infringe, misappropriate or otherwise violate their intellectual property rights. The types of situations in which we may become a party to such litigation or proceedings include:

- we or our collaborators may initiate litigation or other proceedings against third parties seeking to invalidate the patents held by those third parties or to obtain a judgment that our products or processes do not infringe those third parties' patents;
- we or our collaborators may participate at substantial cost in International Trade Commission proceedings to abate importation of products that would compete unfairly with our products;
- if our competitors file patent applications that claim technology also claimed by us or our licensors, we or our licensors may be required to participate in interference, derivation or opposition proceedings to determine the priority of invention, which could jeopardize our patent rights and potentially provide a third party with a dominant patent position;
- if third parties initiate litigation claiming that our processes or products infringe their patent or other intellectual property rights, we and our collaborators will need to defend against such proceedings;
- if third parties initiate litigation or other proceedings seeking to invalidate patents owned by or licensed to us or to obtain a declaratory judgment that their products, services, or technologies do not infringe our patents or patents licensed to us, we will need to defend against such proceedings;
- we may be subject to ownership disputes relating to intellectual property, including disputes arising from conflicting obligations of
 consultants or others who are involved in developing our products; and
- if a license to necessary technology is terminated, the licensor may initiate litigation claiming that our processes or products infringe or
 misappropriate its patent or other intellectual property rights and/or that we breached our obligations under the license agreement, and we
 and our collaborators would need to defend against such proceedings.

These lawsuits and proceedings, regardless of merit, are time-consuming and expensive to initiate, maintain, defend or settle, and could divert the time and attention of managerial and technical personnel, which could materially adversely affect our business. Any such claim could also force use to do one or more of the following:

- incur substantial monetary liability for infringement or other violations of intellectual property rights, which we may have to pay if a court decides that the product, service, or technology at issue infringes or violates the third party's rights, and if the court finds that the infringement was willful, we could be ordered to pay treble damages and the third party's attorneys' fees;
- pay substantial damages to our customers or end users to discontinue use or replace infringing technology with non-infringing technology;
- stop manufacturing, offering for sale, selling, using, importing, exporting or licensing the product or technology incorporating the allegedly infringing technology into such product, service, or technology;
- obtain from the owner of the infringed intellectual property right a license, which may require us to pay substantial upfront fees or royalties to sell or use the relevant technology and which may not be available on commercially reasonable terms, or at all;
- redesign our products, services, and technology so they do not infringe or violate the third party's intellectual property rights, which may not be possible or may require substantial monetary expenditures and time;
- · enter into cross-licenses with our competitors, which could weaken our overall intellectual property position;
- lose the opportunity to license our technology to others or to collect royalty payments based upon successful protection and assertion of our intellectual property against others;
- · find alternative suppliers for non-infringing products and technologies, which could be costly and create significant delay; or
- relinquish rights associated with one or more of our patent claims, if our claims are held invalid or otherwise unenforceable.

Some of our competitors may be able to sustain the costs of complex intellectual property litigation more effectively than we can because they have substantially greater resources. In addition, intellectual property litigation, regardless of its outcome, may cause negative publicity, adversely impact prospective customers, cause product shipment delays, or prohibit us from manufacturing, marketing or otherwise commercializing our products, services and technology. Any uncertainties resulting from the initiation and continuation of any litigation could have a material adverse effect on our ability to raise additional funds or otherwise have a material adverse effect on our business, results of operation, financial condition or cash flows.

In addition, we may indemnify our customers and distributors against claims relating to the infringement of intellectual property rights of third parties related to our products. Third parties may assert infringement claims against our customers or distributors. These claims may require us to initiate or defend protracted and costly litigation on behalf of our customers or distributors, regardless of the merits of these claims. If any of these claims succeed, we may be forced to pay damages on behalf of our customers, suppliers or distributors, or may be required to obtain licenses for the products or services they use. If we cannot obtain all necessary licenses on commercially reasonable terms, our customers may be forced to stop using our products or services.

Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. There could also be public announcements of the results of hearings, motions or other interim proceedings or developments, which could have a material adverse effect on the price of our

common stock. If securities analysts or investors perceive these results to be negative, it could have a material adverse effect on the price of our common stock. The occurrence of any of these events may have a material adverse effect on our business, results of operation, financial condition or cash flows.

If we are unable to protect the confidentiality of our trade secrets, our business and competitive position may be harmed.

In addition to patent, copyright, and trademark protection, we also rely on trade secrets, including unpatented know-how, technology and other proprietary information, to maintain our competitive position. We seek to protect our trade secrets, in part, by entering into non-disclosure and confidentiality agreements with parties who have access to them, such as our consultants and vendors, or our former or current employees. We also enter into confidentiality and invention and patent assignment agreements with our employees and consultants. Despite these efforts, however, any of these parties may breach the agreements and disclose our trade secrets and other unpatented or unregistered proprietary information, and once disclosed, we are likely to lose trade secret protection. Monitoring unauthorized uses and disclosures of our intellectual property is difficult, and we do not know whether the steps we have taken to protect our intellectual property will be effective. In addition, we may not be able to obtain adequate remedies for any such breaches. Enforcing a claim that a party illegally disclosed or misappropriated a trade secret is difficult, expensive and time-consuming, and the outcome is unpredictable. In addition, some courts inside and outside the United States are less willing or unwilling to enforce trade secret protection.

Further, our competitors may independently develop knowledge, methods and know-how similar, equivalent, or superior to our proprietary technology. Competitors could purchase our products and attempt to reverse engineer and replicate some or all of the competitive advantages we derive from our development efforts, willfully infringe our intellectual property rights, design around our protected technology, or develop their own competitive technologies that fall outside of our intellectual property rights. In addition, our key employees, consultants, suppliers or other individuals with access to our proprietary technology and know-how may incorporate that technology and know-how into projects and inventions developed independently or with third parties. As a result, disputes may arise regarding the ownership of the proprietary rights to such technology or know-how, and any such dispute may not be resolved in our favor. If any of our trade secrets were to be lawfully obtained or independently developed by a competitor, we would have no right to prevent them, or those to whom they communicate it, from using that technology or information to compete with us and our competitive position could be adversely affected. If our intellectual property is not adequately protected so as to protect our market against competitors' products and processes, our competitive position could be adversely affected, as could our business.

Changes in patent law could diminish the value of patents in general, thereby impairing our ability to protect our existing and future products and processes.

As is the case with other pharmaceutical and medical device companies, our success is heavily dependent on intellectual property, particularly patents. Obtaining and enforcing patents in the biopharmaceutical industry involves both technological and legal complexity, and is therefore costly, time-consuming, and inherently uncertain. In addition, the United States has recently enacted and is currently implementing wide-ranging patent reform legislation. Recent patent reform legislation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents. On September 16, 2011, the Leahy-Smith Act was signed into law. The Leahy-Smith Act includes a number of significant changes to U.S. patent law. These include provisions that affect the way patent applications are prosecuted, redefine prior art, may affect patent litigation, and switched the United States patent system from a "first-to-invent" system to a "first-to-file" system. Under a "first-to-file" system, assuming the other requirements for patentability are met, the first inventor to file a patent application generally will be entitled to the patent on an invention regardless of whether another inventor had conceived or reduced to practice the invention earlier. The USPTO recently developed new regulations and procedures to govern administration of the Leahy-Smith Act, and many of the

substantive changes to patent law associated with the Leahy-Smith Act, in particular, the first-to-file provisions, only became effective on March 16, 2013. Accordingly, it is not clear what, if any, impact the Leahy-Smith Act will have on the operation of our business. The Leahy-Smith Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents, all of which could have a material adverse effect on our business and financial condition.

In addition, patent reform legislation may pass in the future that could lead to additional uncertainties and increased costs surrounding the prosecution, enforcement and defense of our patents and pending patent applications. Recent U.S. Supreme Court rulings have narrowed the scope of patent protection available in certain circumstances and weakened the rights of patent owners in certain situations. Furthermore, the U.S. Supreme Court and the U.S. Court of Appeals for the Federal Circuit have made, and will likely continue to make, changes in how the patent laws of the United States are interpreted. Similarly, foreign courts have made, and will likely continue to make, changes in how the patent laws in their respective jurisdictions are interpreted. We cannot predict future changes in the interpretation of patent laws or changes to patent laws that might be enacted into law by United States and foreign legislative bodies. Those changes may materially affect our patents or patent applications and our ability to obtain additional patent protection in the future.

Obtaining and maintaining patent protection depends on compliance with various procedural, document submission, fee payment and other requirements imposed by governmental patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements.

The USPTO and various foreign governmental patent agencies require compliance with a number of procedural, documentary, fee payment, and other similar provisions during the patent application process. In addition, periodic maintenance fees on issued patents often must be paid to the USPTO and foreign patent agencies over the lifetime of the patent. While an unintentional lapse can in many cases be cured by payment of a late fee or by other means in accordance with the applicable rules, there are situations in which noncompliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. Non-compliance events that could result in abandonment or lapse of a patent or patent application include, but are not limited to, failure to respond to official actions within prescribed time limits, non-payment of fees and failure to properly legalize and submit formal documents. If we fail to maintain the patents and patent applications covering our products or procedures, we may not be able to stop a competitor from marketing products that are the same as or similar to our own, which would have a material adverse effect on our business.

If our trademarks and trade names are not adequately protected, then we may not be able to build name recognition in our markets of interest and our business may be adversely affected.

Our registered or unregistered trademarks or trade names may be challenged, infringed, circumvented, declared generic or determined to be infringing on other marks. We may not be able to protect our rights in these trademarks and trade names, which we need in order to build name recognition with potential partners or customers in our markets of interest. In addition, third parties have used trademarks similar and identical to our trademarks in foreign jurisdictions, and have filed or may in the future file for registration of such trademarks. If they succeed in registering or developing common law rights in such trademarks, and if we are not successful in challenging such third-party rights, we may not be able to use these trademarks to market our products in those countries. In any case, if we are unable to establish name recognition based on our trademarks and trade names, then we may not be able to compete effectively and our business may be adversely affected.

If we cannot show access and copying then our copyrights may not provide protection for our software and our business may be adversely affected.

Copyrights protect works of authorship such as software, but proving infringement requires a showing of access to the work and copying of the work. Because software is not readily available or accessible, it may be

difficult to determine and prove that a third party had access to our software and/or that they copied our software. Because our software may be accessible by obtaining or accessing our product offerings and technology, third parties may be able to download or reproduce our software and reverse engineer our software programs. Software programs can be rewritten in ways that significantly modify it from the original program, which may make it difficult to prove the copying prong of a copyright infringement showing. If we are unable to establish the two prongs of a copyright infringement analysis, then our copyrights may provide limited or no protection for our software. Copyright infringement suits are expensive and any damages we seek may be inadequate to compensate us for the costs of litigation and for damage to our business resulting from the copyright infringement.

We may not be able to adequately protect our intellectual property rights throughout the world.

Filing, prosecuting and defending patents on our products in all countries throughout the world would be prohibitively expensive. The requirements for patentability may differ in certain countries, particularly developing countries, and the breadth of patent claims allowed can be inconsistent. In addition, the laws of some foreign countries may not protect our intellectual property rights to the same extent as laws in the United States. Consequently, we may not be able to prevent third parties from practicing our inventions in all countries outside the United States. Competitors may use our technologies in jurisdictions where we have not obtained patent protection to develop their own products and, further, may export otherwise infringing products to territories in which we have patent protection that may not be sufficient to terminate infringing activities.

We do not have patent rights in certain foreign countries in which a market may exist. Moreover, in foreign jurisdictions where we do have patent rights, proceedings to enforce such rights could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patents at risk of being invalidated or interpreted narrowly, and our patent applications at risk of not issuing. Additionally, such proceedings could provoke third parties to assert claims against us. We may not prevail in any lawsuits that we initiate and the damages or other remedies awarded, if any, may not be commercially meaningful. Thus, we may not be able to stop a competitor from marketing and selling in foreign countries products and services that are the same as or similar to our products and services, and our competitive position in the international market would be harmed.

We may not identify relevant third-party patents or may incorrectly interpret the relevance, scope or expiration of a third-party patent which might adversely affect our ability to develop and market our products.

We cannot guarantee that any of our or our licensors' patent searches or analyses, including the identification of relevant patents, the scope of patent claims or the expiration of relevant patents, are complete or thorough, nor can we be certain that we have identified each and every third-party patent and pending application in the United States and abroad that is relevant to or necessary for the commercialization of our products in any jurisdiction. For example, U.S. patent applications filed before November 29, 2000 and certain U.S. patent applications filed after that date that will not be filed outside the United States remain confidential until patents issue. Patent applications in the United States and elsewhere are published approximately 18 months after the earliest filing for which priority is claimed, with such earliest filing date being commonly referred to as the priority date. Therefore, patent applications covering our products could have been filed by others without our knowledge. Additionally, pending patent applications that have been published can, subject to certain limitations, be later amended in a manner that could cover our product candidates or the use of our products. The scope of a patent claim is determined by an interpretation of the law, the written disclosure in a patent and the patent's prosecution history. Our interpretation of the relevance or the scope of a patent or a pending application may be incorrect, which may negatively impact our ability to market our products. We may incorrectly determine that our products are not covered by a third-party patent or may incorrectly predict whether a third party's pending patent application will issue with claims of relevant scope. Our determination of the expiration date of any patent in the United States or abroad that we consider relevant may be incorrect, which may negatively impact our ability to develop and market our products and services. Our failure to identify and correctly interpret relevant patents may negatively impact our

If we fail to identify and correctly interpret relevant patents, we may be subject to infringement claims. We cannot guarantee that we will be able to successfully settle or otherwise resolve such infringement claims. If we fail in any such dispute, in addition to being forced to pay damages, we may be temporarily or permanently prohibited from commercializing any of our products that are held to be infringing. We might, if possible, also be forced to redesign products or services so that we no longer infringe the third-party intellectual property rights. Any of these events, even if we were ultimately to prevail, could require us to divert substantial financial and management resources that we would otherwise be able to devote to our business.

Patent terms may be inadequate to protect our competitive position on our products for an adequate amount of time.

Patents have a limited lifespan, and the protection patents afford is limited. In the United States, if all maintenance fees are timely paid, the natural expiration of a patent is generally 20 years from its earliest U.S. non-provisional filing date. Even if patents covering our products are obtained, once the patent life has expired for patents covering a product, we may be open to competition from competitive products and services. As a result, our patent portfolio may not provide us with sufficient rights to exclude others from commercializing product candidates similar or identical to ours.

Intellectual property rights do not necessarily address all potential threats to our business.

Once granted, patents may remain open to invalidity challenges including opposition, interference, re-examination, post-grant review, inter partes review, nullification or derivation action in court or before patent offices or similar proceedings for a given period after allowance or grant, during which time third parties can raise objections against such grant. In the course of such proceedings, which may continue for a protracted period of time, the patent owner may be compelled to limit the scope of the allowed or granted claims thus attacked, or may lose the allowed or granted claims altogether.

In addition, the degree of future protection afforded by our intellectual property rights is uncertain because even granted intellectual property rights have limitations, and may not adequately protect our business, provide a barrier to entry against our competitors or potential competitors or permit us to maintain our competitive advantage. Moreover, if a third party has intellectual property rights that cover the practice of our technology, we may not be able to fully exercise or extract value from our intellectual property rights. The following examples are illustrative:

- others may be able to develop and/or practice technology that is similar to our technology or aspects of our technology, but that are not covered by the claims of the patents that we own or control, assuming such patents have issued or do issue;
- we or our licensors or any future strategic partners might not have been the first to conceive or reduce to practice the inventions covered by
 the issued patents or pending patent applications that we own or have exclusively licensed;
- we or our licensors or any future strategic partners might not have been the first to file patent applications covering certain of our inventions;
- others may independently develop similar or alternative technologies or duplicate any of our technologies without infringing our intellectual property rights;
- it is possible that our pending patent applications will not lead to issued patents;
- issued patents that we own or have exclusively licensed may not provide us with any competitive advantage, or may be held invalid or unenforceable, as a result of legal challenges by our competitors;
- our competitors might conduct research and development activities in countries where we do not have patent rights and then use the information learned from such activities to develop competitive products for sale in our major commercial markets;

- third parties performing manufacturing or testing for us using our products or technologies could use the intellectual property of others without obtaining a proper license;
- parties may assert an ownership interest in our intellectual property and, if successful, such disputes may preclude us from exercising exclusive rights over that intellectual property;
- we may not develop or in-license additional proprietary technologies that are patentable;
- · we may not be able to obtain and maintain necessary licenses on commercially reasonable terms, or at all; and
- the patents of others may have an adverse effect on our business.

Should any of these events occur, they could significantly harm our business and results of operations.

We may be subject to claims that our employees, consultants or independent contractors have wrongfully used or disclosed confidential information of their former employers or other third parties.

We do and may employ individuals who were previously employed at universities or other pharmaceutical or medical device companies, including our licensors, competitors or potential competitors. Although we try to ensure that our employees, consultants and independent contractors do not use the proprietary information or know-how of others in their work for us, and we are not currently subject to any claims that our employees, consultants or independent contractors have wrongfully used or disclosed confidential information of third parties, we may in the future be subject to such claims. Litigation may be necessary to defend against these claims. If we fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel. Such intellectual property rights could be awarded to a third party, and we could be required to obtain a license from such third party to commercialize our technology or products. Such a license may not be available on commercially reasonable terms or at all. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management and other employees, and could result in customers seeking other sources for the technology, or in ceasing from doing business with us.

Our intellectual property agreements with third parties may be subject to disagreements over contract interpretation, which could narrow the scope of our rights to the relevant intellectual property or technology.

Certain provisions in our intellectual property agreements may be susceptible to multiple interpretations. The resolution of any contract interpretation disagreement that may arise could affect the scope of our rights to the relevant intellectual property or technology, or affect financial or other obligations under the relevant agreement, either of which could have a material adverse effect on our business, financial condition, results of operations and prospects.

In addition, while it is our policy to require our employees and contractors who may be involved in the conception or development of intellectual property to execute agreements assigning such intellectual property to us, we may be unsuccessful in executing such an agreement with each party who in fact conceives or develops intellectual property that we regard as our own. Our assignment agreements may not be self-executing or may be breached, and we may be forced to bring claims against third parties, or defend claims they may bring against us, to determine the ownership of what we regard as our intellectual property.

We may not be successful in obtaining necessary intellectual property rights to future products through acquisitions and in-licenses.

Although we intend to develop products and technology through our own internal research, we may also seek to acquire or in-license technologies to grow our product offerings and technology portfolio. However, we may be unable to acquire or in-license intellectual property rights relating to, or necessary for, any such products

or technology from third parties on commercially reasonable terms or at all. In that event, we may be unable to develop or commercialize such products or technology. We may also be unable to identify products or technology that we believe are an appropriate strategic fit for our company and protect intellectual property relating to, or necessary for, such products and technology.

The in-licensing and acquisition of third-party intellectual property rights for product candidates is a competitive area, and a number of more established companies are also pursuing strategies to in-license or acquire third-party intellectual property rights for products that we may consider attractive or necessary. These established companies may have a competitive advantage over us due to their size, cash resources and greater clinical development and commercialization capabilities. Furthermore, companies that perceive us to be a competitor may be unwilling to assign or license rights to us. If we are unable to successfully obtain rights to additional technologies or products, our business, financial condition, results of operations and prospects for growth could suffer.

In addition, we expect that competition for the in-licensing or acquisition of third-party intellectual property rights for products and technologies that are attractive to us may increase in the future, which may mean fewer suitable opportunities for us as well as higher acquisition or licensing costs. We may be unable to in-license or acquire the third-party intellectual property rights for products or technology on terms that would allow us to make an appropriate return on our investment.

Risks Related to Regulation of our Industry

Our future success depends on our ability to develop, receive regulatory clearance or approval for, and introduce new products or product enhancements that will be accepted by the market in a timely manner.

It is important to our business that we build a pipeline of product offerings for treatment of our target indications. As such, our success will depend in part on our ability to develop and introduce new products. However, we may not be able to successfully develop and obtain regulatory clearance or approval for product enhancements, or new products, or these products may not be accepted by physicians or the payors who financially support many of the procedures performed with our products.

The success of any new product offering or enhancement to an existing product will depend on a number of factors, including our ability to:

- identify and anticipate physician and patient needs properly;
- develop and introduce new products or product enhancements in a timely manner;
- avoid infringing upon the intellectual property rights of third parties;
- demonstrate, if required, the safety and efficacy of new products with data from preclinical and clinical studies;
- obtain the necessary regulatory clearances or approvals for new products or product enhancements;
- · comply fully with FDA and foreign regulations on marketing of new devices or modified products;
- provide adequate training to potential users of our products; and
- receive adequate coverage and reimbursement for procedures performed with our products.

If we do not develop new products or product enhancements in time to meet market demand or if there is insufficient demand for these products or enhancements, or if our competitors introduce new products with functionalities that are superior to ours, our results of operations will suffer.

gammaCore is subject to extensive governmental regulation, and our failure to comply with applicable requirements could cause our business to suffer.

The medical device industry is regulated extensively by governmental authorities, principally the FDA and corresponding state and foreign regulatory agencies and authorities, such as the EU legislative bodies and the EEA Member States, Competent Authorities and notified bodies. The FDA and other U.S., EEA and foreign governmental agencies and authorities regulate and oversee, among other things, with respect to medical devices:

- design, development and manufacturing;
- testing, labeling, content and language of instructions for use and storage;
- · clinical trials;
- product safety;
- risk assessment and management;
- marketing, sales and distribution;
- pre-market regulatory clearance and approval;
- conformity assessment procedures;
- record-keeping procedures;
- advertising and promotion;
- recalls and other field safety corrective actions;
- post-market surveillance, including reporting of deaths or serious injuries and malfunctions that, if they were to recur, could lead to death or serious injury;
- post-market studies; and
- product import and export.

The laws and regulations to which we are subject are complex and have tended to become more stringent over time. Legislative or regulatory changes could result in restrictions on our ability to carry on or expand our operations, higher than anticipated costs or lower than anticipated sales.

Our failure to comply with U.S. federal and state regulations or EEA or other foreign regulations applicable in the countries where we operate could lead to the issuance of warning letters or untitled letters, the imposition of injunctions, suspensions or loss of regulatory clearance or approvals, product recalls, termination of distribution, product seizures or civil penalties. In the most extreme cases, criminal sanctions or closure of our manufacturing facilities are possible. If any of these risks materialize, our business would be adversely affected.

gammaCore is also subject to extensive governmental regulation in foreign jurisdictions, such as Europe, and our failure to comply with applicable requirements could cause our business to suffer.

In the EEA, gammaCore must comply with the Essential Requirements laid down in Annex I to Directive 93/42/EEC on the approximation of the laws of the Member States relating to medical devices or the EU Medical Devices Directive. Compliance with these requirements is a prerequisite to be able to affix the CE mark to gammaCore, without which they cannot be marketed or sold in the EEA. To demonstrate compliance with the Essential Requirements and obtain the right to affix the CE Mark medical devices manufacturers must undergo a conformity assessment procedure, which varies according to the type of medical device and its classification. Except for low risk medical devices (Class I with no measuring function and which are not sterile), where the manufacturer can issue an EC Declaration of Conformity based on a self-assessment of the conformity of its products with the Essential Requirements, a conformity assessment procedure requires the intervention of a

Notified Body, which is an organization designated by a competent authority of an EEA country to conduct conformity assessments. Depending on the relevant conformity assessment procedure, the Notified Body would audit and examine the Technical File and the quality system for the manufacture, design and final inspection of the medical devices. The Notified Body issues a CE Certificate of Conformity following successful completion of a conformity assessment procedure conducted in relation to the medical device and its manufacturer and their conformity with the Essential Requirements. This Certificate entitles the manufacturer to affix the CE mark to its medical devices after having prepared and signed a related EC Declaration of Conformity.

As a general rule, demonstration of conformity of medical devices and their manufacturers with the Essential Requirements must be based, among other things, on the evaluation of clinical data supporting the safety and performance of the products during normal conditions of use. Specifically, a manufacturer must demonstrate that the device achieves its intended performance during normal conditions of use and that the known and foreseeable risks, and any adverse events, are minimized and acceptable when weighed against the benefits of its intended performance, and that any claims made about the performance and safety of the device, such as product labeling and instructions for use, are supported by suitable evidence. This assessment must be based on clinical data, which can be obtained from (1) clinical studies conducted on the devices being assessed, (2) scientific literature from similar devices whose equivalence with the assessed device can be demonstrated or (3) both clinical studies and scientific literature. With respect to Class III devices, the manufacturer must conduct clinical studies to obtain the required clinical data, unless reliance on existing clinical data from equivalent devices can be justified. The conduct of clinical studies in the EEA is governed by detailed regulatory obligations. These may include the requirement of prior authorization by the competent authorities of the country in which the study takes place and the requirement to obtain a positive opinion from a competent Ethics Committee. This process can be expensive and time-consuming.

Moreover, on May 25, 2017 the new Medical Devices Regulation (2017/745 or MDR) entered into force. Following its entry into application on May 26, 2020, the Regulations will introduce substantial changes to the obligations with which medical device manufacturers must comply in the EU. High risk medical devices will be subject to additional scrutiny during the conformity assessment procedure. Specifically, the EU Medical Devices Regulation repeals and replaces the EU Medical Devices Directive. Unlike directives, which must be implemented into the national laws of the EEA Member States, the regulations would be directly applicable, i.e., without the need for adoption of EEA Member State laws implementing them, in all EEA Member States and are intended to eliminate current differences in the regulation of medical devices among EEA Member States. The EU Medical Devices Regulation, among other things, is intended to establish a uniform, transparent, predictable and sustainable regulatory framework across the EEA for medical devices and ensure a high level of safety and health while supporting innovation. The EU Medical Devices Regulation will however only become applicable three years after publication (in May 2020). Once applicable, the new regulations will among other things:

- strengthen the rules on placing devices on the market and reinforce surveillance once they are available;
- establish explicit provisions on manufacturers' responsibilities for the follow-up of the quality, performance and safety of devices placed on the market;
- improve the traceability of medical devices throughout the supply chain to the end-user or patient through a unique identification number;
- set up a central database to provide patients, healthcare professionals and the public with comprehensive information on products available
 in the EU; and
- strengthened rules for the assessment of certain high-risk devices which may have to undergo an additional check by experts before they are
 placed on the market.

Once applicable, the Medical Devices Regulation may impose increased compliance obligations for us to access the EU market.

In order to continue to sell gammaCore in Europe, we must maintain our CE Mark and continue to comply with certain EU Directives and, in the future with the EU Medical Devices Regulation. Our failure to continue to comply with applicable foreign regulatory requirements, including those administered by authorities of the EEA countries, could result in enforcement actions against us, including refusal, suspension or withdrawal of our CE Certificates of Conformity by our Notified Body (the British Standards Institution, or BSI), which could impair our ability to market products in the EEA in the future.

If we fail to maintain regulatory approvals and clearances, or are unable to obtain, or experience significant delays in obtaining, FDA clearances or approvals for our future products or product enhancements, our ability to commercially distribute and market these products could suffer.

Our products are subject to rigorous regulation by the FDA and numerous other federal, state and foreign governmental authorities. The process of obtaining regulatory clearances or approvals to market a medical device can be costly and time consuming, and we may not be able to obtain these clearances or approvals on a timely basis, if at all. In particular, the FDA permits commercial distribution of a new medical device only after the device has received clearance under Section 510(k) of the Federal Food, Drug and Cosmetic Act, or is the subject of an approved premarket approval application, or PMA unless the device is specifically exempt from those requirements. The FDA will clear marketing of a lower risk medical device through the 510(k) process if the manufacturer demonstrates that the new product is substantially equivalent to a legally marketed "predicate" device. High risk devices deemed to pose the greatest risk, such as life-sustaining, life-supporting, or implantable devices, or devices not deemed substantially equivalent to a legally marketed "predicate" device, require the approval of a PMA. The PMA process is more costly, lengthy and uncertain than the 510(k) clearance process. A PMA application must be supported by extensive data, including, but not limited to, technical, preclinical, clinical trial, manufacturing and labeling data, to demonstrate to the FDA's satisfaction the safety and efficacy of the device for its intended use. Our currently commercialized gammaCore products have been cleared through the 510(k) process. However, we may need to submit a PMA to expand our labeling claims to include certain indications.

Our failure to comply with U.S. federal, state and foreign governmental regulations could lead to the issuance of warning letters or untitled letters, the imposition of injunctions, suspensions or loss of regulatory clearance or approvals, product recalls, termination of distribution, product seizures or civil penalties. In the most extreme cases, criminal sanctions or closure of our manufacturing facility are possible.

Foreign governmental authorities that regulate the manufacture and sale of medical devices have become increasingly stringent and, to the extent we market and sell our products internationally, we may be subject to rigorous international regulation in the future. In these circumstances, we would rely significantly on our foreign independent distributors to comply with the varying regulations, and any failures on their part could result in restrictions on the sale of our products in foreign countries.

Modifications to our products may require new regulatory clearances or approvals or may require us to recall or cease marketing our products until clearances or approvals are obtained.

Modifications to or expansion of our indications for use of our gammaCore products may require new regulatory approvals or clearances, including 510(k) clearances or PMA approvals, or require us to recall or cease marketing the modified devices until these clearances or approvals are obtained. The FDA requires device manufacturers to initially make and document a determination of whether or not a modification requires a new approval, supplement or clearance. A manufacturer may determine that a modification does not significantly affect safety or efficacy and does not represent a major change in its intended use, so that no new 510(k) clearance is not necessary. However, the FDA can review a manufacturer's decision and may disagree. The FDA may also on its own initiative determine that a new clearance or approval is required. We may make modifications to our products in the future that we believe do not or will not require additional clearances or approvals. If the FDA disagrees and requires new clearances or approvals for the modifications, we may be

required to recall and to stop marketing our products as modified, which could require us to redesign our products and harm our operating results. In these circumstances, we may be subject to significant enforcement actions.

If a manufacturer determines that a modification to an FDA-cleared device could significantly affect its safety or efficacy, or would constitute a major change in its intended use, then the manufacturer must file for a new 510(k) clearance or possibly a PMA application. Where we determine that modifications to our products require a new 510(k) clearance or PMA application, we may not be able to obtain those additional clearances or approvals for the modifications or additional indications in a timely manner, or at all. For those products sold in the EU, we must notify our E.U. Notified Body, if significant changes are made to the products or if there are substantial changes to our quality assurance systems affecting those products. Obtaining clearances and approvals can be a time consuming process, and delays in obtaining required future clearances or approvals would adversely affect our ability to introduce new or enhanced products in a timely manner, which in turn would harm our future growth.

There is no guarantee that the FDA will grant 510(k) clearance or PMA approval of our future products and failure to obtain necessary clearances or approvals for our future products would adversely affect our ability to grow our business.

Some of our new products or expanded indications for use will require FDA clearance of a 510(k), or may require FDA approval of a PMA. The FDA may not approve or clear these products for the indications that are necessary or desirable for successful commercialization. Indeed, the FDA may refuse our requests for 510(k) clearance or premarket approval of new products, new intended uses or modifications to existing products. Failure to receive clearance or approval for our new products would have an adverse effect on our ability to expand our business.

Even if our products are cleared or approved by regulatory authorities, if we or our suppliers fail to comply with ongoing FDA or other foreign regulatory authority requirements, or if we experience unanticipated problems with our products, these products could be subject to restrictions or withdrawal from the market.

Any product for which we obtain clearance or approval, and the manufacturing processes, reporting requirements, post-approval clinical data and promotional activities for such product, will be subject to continued regulatory review, oversight and periodic inspections by the FDA and other domestic and foreign regulatory bodies. In particular, we and our suppliers are required to comply with FDA's Quality System Regulation, or QSR, and International Standards Organization, or ISO, regulations for the manufacture of our products and other regulations which cover the methods and documentation of the design, testing, production, control, quality assurance, labeling, packaging, storage and shipping of any product for which we obtain clearance or approval. Regulatory bodies, such as the FDA, enforce the QSR and other regulations through periodic inspections. The failure by us or one of our suppliers to comply with applicable statutes and regulations administered by the FDA and other regulatory bodies, or the failure to timely and adequately respond to any adverse inspectional observations or product safety issues, could result in, among other things, any of the following enforcement actions:

- untitled letters, warning letters, fines, injunctions, consent decrees and civil penalties;
- unanticipated expenditures to address or defend such actions
- customer notifications for repair, replacement, refunds;
- recall, detention or seizure of our products;
- operating restrictions or partial suspension or total shutdown of production;
- refusing or delaying our requests for 510(k) clearance or PMA approval of new products or modified products;

- operating restrictions;
- withdrawing 510(k) clearances on PMA approvals that have already been granted;
- refusal to grant export approval for our products; or
- criminal prosecution.

If any of these actions were to occur it would harm our reputation and cause our product sales and profitability to suffer and may prevent us from generating revenue. Furthermore, our key component suppliers may not currently be or may not continue to be in compliance with all applicable regulatory requirements which could result in our failure to produce our products on a timely basis and in the required quantities, if at all.

Even if regulatory clearance or approval of a product is granted, such clearance or approval may be subject to limitations on the intended uses for which the product may be marketed and reduce our potential to successfully commercialize the product and generate revenue from the product. If the FDA determines that our promotional materials, labeling, training or other marketing or educational activities constitute promotion of an unapproved use, it could request that we cease or modify our training or promotional materials or subject us to regulatory enforcement actions. It is also possible that other federal, state or foreign enforcement authorities might take action if they consider our training or other promotional materials to constitute promotion of an unapproved use, which could result in significant fines or penalties under other statutory authorities, such as laws prohibiting false claims for reimbursement.

In addition, we may be required to conduct costly post-market testing and surveillance to monitor the safety or effectiveness of our products, and we must comply with medical device reporting, or MDR, requirements, including the reporting of adverse events and malfunctions related to our products. Later discovery of previously unknown problems with our products, including unanticipated adverse events or adverse events of unanticipated severity or frequency, manufacturing problems, or failure to comply with regulatory requirements such as QSR may result in changes to labeling, restrictions on such products or manufacturing processes, withdrawal of the products from the market, voluntary or mandatory recalls, a requirement to repair, replace or refund the cost of any medical device we manufacture or distribute, fines, suspension of regulatory clearances or approvals, product seizures, injunctions or the imposition of civil or criminal penalties which would adversely affect our business, operating results and prospects.

The misuse or off-label use of our gammaCore therapy may harm our image in the marketplace, result in injuries that lead to product liability suits, which could be costly to our business, or result in costly investigations and sanctions from the FDA and other regulatory bodies if we are deemed to have engaged in off-label promotion.

gammaCore has been CE Marked in the EEA and cleared by the FDA for the acute treatment of eCH and the acute treatment of migraine headache in the United States. We may only promote or market our gammaCore therapy for its specifically approved indications as described on the approved label. We train our marketing and sales force against promoting our products for uses outside of the approved indications for use, known as "off-label uses." We cannot, however, prevent a physician from prescribing our product off-label, when in the physician's independent professional medical judgment he or she deems appropriate. There may be increased risk of injury to patients if patients attempt to use our product off-label. Furthermore, the use of our product for indications other than those cleared or approved by the applicable regulatory body may not effectively treat such conditions, which could harm our reputation in the marketplace among physicians and patients.

Patients may also misuse our product or use improper techniques if they are not adequately trained, potentially leading to injury and an increased risk of product liability. If our product is misused or used with improper technique, we may become subject to costly litigation by our customers or their patients. Product liability claims could divert management's attention from our core business, be expensive to defend, and result in

sizable damage awards against us that may not be covered by insurance. In addition, if our products are approved for sale in the United States and the FDA determines that our promotional materials or training constitute promotion of an off-label use, it could request that we modify our training or promotional materials or subject us to regulatory or enforcement actions, including the issuance of an untitled letter, a warning letter, injunction, seizure, civil fine or criminal penalties. It is also possible that other federal, state or foreign enforcement authorities might take action if they consider our business activities to constitute promotion of an off-label use, which could result in significant penalties, including, but not limited to, criminal, civil and/or administrative penalties, damages, fines, disgorgement, exclusion from participation in government healthcare programs, and the curtailment of our operations. Further, our competitors could bring civil actions under relevant unfair competition and advertising laws should they believe our business activities and product promotional activities are improper. Any of these events could significantly harm our business and results of operations and cause our stock price to decline.

Further, the advertising and promotion of our products is subject to EEA Member States' national laws implementing Directive 93/42/EEC on the approximation of the laws of the Member States relating to medical devices, Directive 2006/114/EC concerning misleading and comparative advertising, and Directive 2005/29/EC on unfair commercial practices, as well as other EEA Member State legislation governing the advertising and promotion of medical devices. EEA Member State legislation may also restrict or impose limitations on our ability to advertise our products directly to the general public. In addition, voluntary EU and national Codes of Conduct provide guidelines on the advertising and promotion of our products to the general public and may impose limitations on our promotional activities with healthcare professionals.

gammaCore may in the future be subject to notifications, recalls, or voluntary market withdrawals that could harm our reputation, business and financial results.

The FDA, EEA Competent Authorities and similar foreign governmental authorities have the authority to require the recall of commercialized products in the event of regulatory noncompliance or material deficiencies or defects in design or manufacture that could affect patient safety. In the case of the FDA, the authority to require a recall must be based on an FDA finding that there is a reasonable probability that the device would cause serious injury or death. In addition, foreign governmental bodies have the authority to require the recall of our products in the event of material deficiencies or defects in design or manufacture. Manufacturers may, under their own initiative, recall a product if any material deficiency in a device is found. A government-mandated or voluntary recall by us or one of our distributors could occur as a result of component failures, manufacturing errors, design or labeling defects or other deficiencies and issues. Recalls of any of our products would divert managerial and financial resources and have an adverse effect on our financial condition and results of operations. We must notify the FDA of all device recalls and corrections, and certain classifications of recalls and corrections require more extensive reporting within 10 working days after the recall is initiated. Companies are required to maintain certain records of recalls and corrections, even if they are not subject to more extensive reporting requirements. We may initiate voluntary market withdrawals or other market actions involving our gammaCore products in the future that we determine do not require notification of the FDA. If the FDA disagrees with our determinations, they could require us to report those actions as recalls. A future recall announcement could harm our reputation with customers and negatively affect our sales. In addition, the FDA could take enforcement action for failing to report the recalls or corrections when they were conducted. Consumer class action claims and/or product liability claims are a g

We are required to report certain malfunctions, deaths, and serious injuries associated with our products, which can result in voluntary corrective actions or agency enforcement actions.

Under the FDA MDR regulations, medical device manufacturers are required to submit information to the FDA when they receive a report or become aware that a device has or may have caused or contributed to a death or serious injury or has or may have a malfunction that would likely cause or contribute to death or serious injury if the malfunction were to recur. All manufacturers placing medical devices on the market in the EEA are legally

bound to report incidents involving devices they produce or sell to the regulatory agency, or competent authority, in whose jurisdiction the incident occurred. Under the Directive 93/42/EEC on the approximation of the laws of the Member States relating to medical devices, an incident is defined as any malfunction or deterioration in the characteristics and/or performance of a device, as well as any inadequacy in the labeling or the instructions for use which, directly or indirectly, might lead to or might have led to the death of a patient, or user or of other persons or to a serious deterioration in their state of health.

Malfunction of our products could result in future voluntary corrective actions, such as recalls, including corrections, or customer notifications, or agency action, such as inspection or enforcement actions. If malfunctions do occur, we may be unable to correct the malfunctions adequately or prevent further malfunctions, in which case we may need to cease manufacture and distribution of the affected products, initiate voluntary recalls, and redesign the products. Regulatory authorities may also take actions against us, such as ordering recalls, imposing fines, or seizing the affected products. Any corrective action, whether voluntary or involuntary, will require the dedication of our time and capital, distract management from operating our business, and may harm our reputation and financial results.

Legislative or regulatory reforms may make it more difficult and costly for us to obtain regulatory approval of our product candidates and to manufacture, market and distribute our products after approval is obtained.

From time to time, legislation is drafted and introduced in Congress that could significantly change the statutory provisions governing the regulatory approval, manufacture and marketing of regulated products or the reimbursement thereof. In addition, FDA regulations and guidance are often revised or reinterpreted by the FDA in ways that may significantly affect our business and our products. Any new regulations or revisions or reinterpretations of existing regulations may impose additional costs or lengthen review times of future products. It is impossible to predict whether legislative changes will be enacted or FDA regulations, guidance or interpretations changed, and what the impact of such changes, if any, may be.

Moreover, the policies of the Trump Administration and their impact on the regulation of our products in the United States remain uncertain. The outcome of the 2016 election and the forthcoming 2018 mid-term elections could result in significant legislative and regulatory reforms impacting the FDA's regulation of our products. Any change in the laws or regulations that govern the clearance and approval processes relating to our current and future products could make it more difficult and costly to obtain clearance or approval for new products, or to produce, market and distribute existing products. Significant delays in receiving clearance or approval, or the failure to receive clearance or approval for our new products would have an adverse effect on our ability to expand our business.

In the EU, on May 25, 2017 the new Medical Devices Regulation (2017/745 or MDR) was adopted. Following its entry into application on May 26, 2020, the Regulations will introduce substantial changes to the obligations with which medical device manufacturers must comply in the EU. High risk medical devices will be subject to additional scrutiny during the conformity assessment procedure.

We are subject to federal, state and foreign healthcare laws and regulations, and a finding of failure to comply with such laws and regulations could have a material adverse effect on our business.

We are subject to healthcare fraud and abuse regulation and enforcement by federal, state and foreign governments, which could significantly impact our business. In the United States, the laws that may affect our ability to operate include, but are not limited to:

• the federal Anti-Kickback Statute, which prohibits, among other things, persons and entities from knowingly and willfully soliciting, receiving, offering, or paying remuneration, directly or indirectly, in cash or in kind, in exchange for or to induce either the referral of an individual for, or the purchase, lease, order or recommendation of, any good, facility, item or service for which payment may be made,

in whole or in part, under federal healthcare programs such as Medicare and Medicaid. A person or entity does not need to have actual knowledge of this statute or specific intent to violate it in order to have committed a violation. Moreover, the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the federal civil False Claims Act. Violations of the federal Anti-Kickback Statute may result in civil monetary penalties up to \$74,792 (and adjusted for inflation) for each violation, plus up to three times the remuneration involved. Civil penalties for such conduct can further be assessed under the federal False Claims Act. Violations can also result in criminal penalties, including criminal fines of up to \$100,000 and imprisonment of up to 10 years. Similarly, violations can result in exclusion from participation in government healthcare programs, including Medicare and Medicaid;

- in the event that third-party payors require us to be a durable medical equipment, or DME, supplier or we sell our products directly to providers who are DME suppliers that submit claims to such payors, we may be subject to the federal Stark physician self-referral law, which prohibits a physician from making a referral for certain designated health services covered by the Medicare program, including DME, if the physician or an immediate family member has a financial relationship with the entity providing the designated health services, and prohibits that entity from billing or presenting a claim for the designated health services furnished pursuant to the prohibited referral, unless an exception applies. Sanctions for violating the Stark Law include denial of payment, civil monetary penalties of up to \$24,253 (and adjusted for inflation) per claim submitted and exclusion from the federal health care programs. Failure to refund amounts received as a result of a prohibited referral on a timely basis may constitute a false or fraudulent claim and may result in civil penalties and additional penalties under the FCA. The statute also provides for a penalty of up to \$161,692 (and adjusted for inflation) for a circumvention scheme. Various states also have corollary laws to the Stark Law, including laws that require physicians to disclose any financial interest they may have with a healthcare provider to their patients when referring patients to that provider. Both the scope and exceptions for such laws vary from state to state.
- federal civil and criminal false claims laws and civil monetary penalty laws, including civil whistleblower or qui tam actions, that prohibit, among other things, knowingly presenting, or causing to be presented, claims for payment of federal funds that are false or fraudulent, knowingly making a false statement material to an obligation to pay or transmit money or property to the federal government or knowingly concealing or knowingly and improperly avoiding or decreasing an obligation to pay or transmit money or property to the federal government. These laws can apply to manufacturers who provide information on coverage, coding, and reimbursement of their products to persons who bill third-party payors. Private individuals can bring False Claims Act "qui tam" actions, on behalf of the government and such individuals, commonly known as "whistleblowers," may share in amounts paid by the entity to the government in fines or settlement. When an entity is determined to have violated the federal civil False Claims Act, the government may impose civil fines and penalties ranging from \$11,181 to \$22,363 for each false claim, plus treble damages, and exclude the entity from participation in Medicare, Medicaid and other federal healthcare programs;
- the federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, which created federal criminal laws that prohibit executing a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters. A person or entity does not need to have actual knowledge of these statutes or specific intent to violate them;
- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act of 2009, or HITECH, and their respective
 implementing regulations, which impose requirements on certain covered healthcare providers, health plans and healthcare clearinghouses
 as well as their business associates that perform services for them that involve individually identifiable health information, relating to the
 privacy, security and transmission of individually identifiable health information without appropriate authorization, including mandatory
 contractual terms as well as

directly applicable privacy and security standards and requirements. Failure to comply with the HIPAA privacy and security standards can result in civil monetary penalties up to \$55,910 per violation, not to exceed \$1.68 million per calendar year for non-compliance of an identical provision, and, in certain circumstances, criminal penalties with fines up to \$250,000 per violation and/or imprisonment. State attorneys general can also bring a civil action to enjoin a HIPAA violation or to obtain statutory damages on behalf of residents of his or her state:

- the federal physician sunshine requirements under the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act, or collectively, the ACA, which require certain applicable manufacturers of drugs, devices, biologics, and medical supplies for which payment is available under Medicare, Medicaid or the Children's Health Insurance Program, or CHIP, to report annually to the U.S. Department of Health and Human Services Centers for Medicare and Medicaid Services, or CMS, information related to payments and other transfers of value to physicians (defined to include doctors, dentists, optometrists, podiatrists and chiropractors) and teaching hospitals, and ownership and investment interests held by physicians and their immediate family members. Applicable manufacturers are required to submit annual reports to CMS. Failure to submit required information may result in civil monetary penalties of between \$1,105 and \$11,052 per failure (up to an aggregate of \$165,786 per year), and between \$11,052 and \$110,524 per "knowing" failure (up to an aggregate of \$1.105 million per year), for all payments, transfers of value or ownership or investment interests that are not timely, accurately, and completely reported in an annual submission, and may result in liability under other federal laws or regulations; and
- state and foreign law equivalents of each of the above federal laws, such as state anti-kickback and false claims laws that may apply to items or services reimbursed by any third-party payor, including commercial insurers; state laws that require device companies to comply with the industry's voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government, or otherwise restrict payments that may be made to healthcare providers and other potential referral sources; state laws that require device manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures; and state and foreign laws governing the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways and often are not preempted by HIPAA.

These laws and regulations, among other things, constrain our business, marketing and other promotional activities by limiting the kinds of financial arrangements we may have with physicians or other entities or individuals in a position to prescribe or recommend our products. We have entered into consulting agreements and other arrangements with physicians, including some who have ownership interests in us and/or prescribe our products to patients. Compensation under some of these arrangements includes the provision of Profits Interests in our company. We could be adversely affected if regulatory agencies determine our financial relationships with such physicians to be in violation of applicable laws. Due to the breadth of these laws, the narrowness of statutory exceptions and regulatory safe harbors available, and the range of interpretations to which they are subject, it is possible that some of our current or future practices might be challenged under one or more of these laws.

The scope and enforcement of each of these laws is uncertain and subject to rapid change in the current environment of healthcare reform, especially in light of the lack of applicable precedent and regulations. Federal and state enforcement bodies have recently increased their scrutiny of interactions between healthcare companies and healthcare providers, which has led to a number of investigations, prosecutions, convictions and settlements in the healthcare industry. Responding to investigations can be time-and resource-consuming and can divert management's attention from the business. Additionally, as a result of these investigations, healthcare providers and entities may have to agree to additional onerous compliance and reporting requirements as part of a consent decree or corporate integrity agreement. Any such investigation or settlement could increase our costs or otherwise have an adverse effect on our business.

If our operations are challenged or found to be in violation of any of the laws described above or any other governmental regulations that apply to us now or in the future, we may be subject to penalties, including civil and criminal penalties, damages, fines, disgorgement, exclusion from governmental health care programs, and the curtailment or restructuring of our operations, any of which could adversely affect our ability to operate our business and our financial results.

Healthcare legislative reform measures may have a material adverse effect on us.

In the United States, there have been and continue to be a number of legislative initiatives to contain healthcare costs. ACA, which was passed in 2010, substantially changed the way health care is financed by both governmental and private insurers and significantly impacts the U.S. healthcare industry. The ACA included, among other things, a deductible 2.3% excise tax on any entity that manufactures or imports medical devices offered for sale in the United States, with limited exceptions, effective January 1, 2013. Through a series of legislative amendments, the tax was suspended for 2016 through 2019. Absent further legislative action, the device excise tax will be reinstated on medical device sales starting January 1, 2020. If reinstated, this excise tax would result in a significant increase in the tax burden on our industry, and if the efforts we would undertake to offset the excise tax are unsuccessful as we begin to sell the product in the United States, the potential increased tax burden could have an adverse effect on our results of operations and cash flows. Other elements of the ACA, including comparative effectiveness research and payment system reforms, including shared savings pilots and other provisions, may significantly affect the payment for, and the availability of, healthcare services and result in fundamental changes to federal healthcare reimbursement programs, any of which may materially affect numerous aspects of our business.

We do not yet know the full impact that the ACA will have on our business. The taxes imposed by the ACA and the expansion in the government's role in the U.S. healthcare industry may result in decreased profits to us, lower reimbursement by payors for our products, and/or reduced medical procedure volumes, all of which may have a material adverse impact on our business, financial condition, results of operations, or cash flows. Certain legislative changes to, and regulatory changes under, the ACA have occurred in the 115th Congress and under the Trump Administration. For instance, the Tax Cuts and Jobs Acts was enacted, which, among other things, removes penalties for not complying with the individual mandate to carry health insurance beginning in 2019. Additional legislative changes to and regulatory changes under the ACA remain possible. Moreover, all or a portion of the ACA and related subsequent legislation may be modified, repealed or otherwise invalidated through judicial challenge, which could result in lower numbers of insured individuals, reduced coverage for insured individuals and adversely affect our business.

In addition, other legislative changes have been proposed and adopted in the United States since the ACA was enacted. On August 2, 2011, the Budget Control Act of 2011 among other things includes aggregate reductions of Medicare payments to providers of 2% per fiscal year, which went into effect on April 1, 2013, and will remain in effect through 2027 unless additional Congressional action is taken. On January 2, 2013, the American Taxpayer Relief Act of 2012 was signed into law which, among other things, further reduced Medicare payments to certain providers, including hospitals.

We expect that additional state and federal healthcare reform measures will be adopted in the future, any of which could limit the amounts that federal and state governments will pay for healthcare products and services, which could result in reduced demand for our product candidates or additional pricing pressures.

Risks Related to Our Common Stock and This Offering

We will incur significantly increased costs and devote substantial management time as a result of operating as a public company.

As a public company, we will incur significant legal, accounting and other expenses that we did not incur as a private company. For example, we will be subject to the reporting requirements of the Exchange Act, and will

be required to comply with the applicable requirements of the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, and the Dodd-Frank Wall Street Reform and Consumer Protection Act, as well as rules and regulations subsequently implemented by the Securities and Exchange Commission, or SEC, and Nasdaq, including the establishment and maintenance of effective disclosure and financial controls and changes in corporate governance practices. We expect that compliance with these requirements will increase our legal and financial compliance costs and will make some activities more time consuming and costly.

In addition, we expect that our management and other personnel will need to divert attention from operational and other business matters to devote substantial time to these public company requirements. In particular, we expect to incur significant expenses and devote substantial management effort toward ensuring compliance with the requirements of Section 404 of the Sarbanes-Oxley Act, which will increase when we are no longer an emerging growth company, as defined by the JOBS Act. We will need to hire additional accounting and financial staff with appropriate public company experience and technical accounting knowledge and may need to establish an internal audit function. We cannot predict or estimate the amount of additional costs we may incur as a result of becoming a public company or the timing of such costs. Additional compensation costs and any future equity awards will increase our compensation expense, which would increase our general and administrative expense and could adversely affect our profitability. We also expect that operating as a public company will make it more difficult and expensive for us to obtain director and officer liability insurance on reasonable terms. As a result, it may be more difficult for us to attract and retain qualified people to serve on our board of directors, our board committees or as executive officers.

Our stock price may be volatile and you may not be able to resell shares of our common stock at or above the price you paid.

The trading price of our common stock following this offering could be highly volatile and could be subject to wide fluctuations in response to various factors, some of which are beyond our control. These factors include those discussed in this "Risk Factors" section of this prospectus and others such as:

- announcements related to regulatory clearance to market gammaCore for the treatment of various conditions in the United States;
- results from, or any delays in, clinical trial programs relating to our product candidates;
- announcements of new products by us or our competitors;
- · adverse actions taken by regulatory agencies with respect to our clinical trials, manufacturing supply chain or sales and marketing activities;
- our operating results;
- changes or developments in laws or regulations applicable to our products;
- · any adverse changes in our relationship with any manufacturers or suppliers;
- the success of our efforts to acquire or develop additional products;
- · any intellectual property infringement actions in which we may become involved;
- · announcements concerning our competitors or the medical device industry in general;
- achievement of expected product sales and profitability;
- · manufacture, supply or distribution shortages;
- actual or anticipated fluctuations in our operating results;
- FDA or other U.S. or foreign regulatory actions affecting us or our industry or other healthcare reform measures in the United States;
- changes in financial estimates or recommendations by securities analysts;

- trading volume of our common stock;
- sales of our common stock by us, our executive officers and directors or our stockholders in the future;
- general economic and market conditions and overall fluctuations in the U.S. equity markets; and
- the loss of any of our key scientific or management personnel.

In addition, the stock markets in general, and the markets for pharmaceutical and medical device stocks in particular, have experienced volatility. These broad market fluctuations may adversely affect the trading price or liquidity of our common stock. In the past, when the market price of a stock has been volatile, holders of that stock have sometimes instituted securities class action litigation against the issuer. If any of our stockholders were to bring such a lawsuit against us, we could incur substantial costs defending the lawsuit and the attention of our management would be diverted from the operation of our business, which could seriously harm our financial position. Any adverse determination in litigation could also subject us to significant liabilities.

We have broad discretion to determine how to use the funds raised in this offering, and may use them in ways that may not enhance our operating results or the price of our common stock.

Our management will have broad discretion over the use of proceeds from this offering, and we could spend the proceeds from this offering in ways our stockholders may not agree with or that do not yield a favorable return, if at all. We currently expect to use the net proceeds from this offering as follows: (i) to hire additional territory business managers and expand marketing programs to prepare for the full commercial launch of our gammaCore products; (ii) to fund the research and development of our gammaCore products for other indications in headache and rheumatology; (iii) to fund the build out of a specialty distribution channel for the anticipated launch of gammaCore Sapphire in the third quarter of 2018; and (iv) the remainder to fund working capital and general corporate purposes. If we do not invest or apply the proceeds of this offering in ways that improve our operating results, we may fail to achieve expected financial results, which could cause our stock price to decline.

An active, liquid and orderly market for our common stock may not develop, and you may not be able to resell your common stock at or above the public offering price.

Prior to this offering, there was no public market for shares of our common stock, and an active public market for our shares may not develop or be sustained after this offering. We and the representatives of the underwriters have determined the initial public offering price of our common stock through negotiation. This price does not necessarily reflect the price at which investors in the market will be willing to buy and sell our shares following this offering. In addition, an active trading market may not develop following the consummation of this offering or, if it does develop, may not be sustained. The lack of an active market may impair your ability to sell your shares at the time you wish to sell them or at a price that you consider reasonable. An inactive market may also impair our ability to raise capital by selling shares and may impair our ability to acquire other businesses or technologies or in-license new product candidates using our shares as consideration. In addition, because certain of our direct and indirect unitholders, including entities affiliated with certain of our directors, have indicated an interest in purchasing an aggregate of approximately \$20 million in shares of our common stock in this offering at the initial public offering price, the overall trading market for our shares may not be as active as it otherwise would have been had these shares been purchased by other investors.

If securities or industry analysts do not publish research or reports about our business, or if they issue an adverse or misleading opinion regarding our stock, our stock price and trading volume could decline.

The trading market for our common stock will be influenced by the research and reports that industry or securities analysts publish about us or our business. We do not currently have and may never obtain research coverage by securities and industry analysts. If no or few securities or industry analysts commence coverage of

us, the trading price for our stock would be negatively impacted. In the event we obtain securities or industry analyst coverage, if any of the analysts who cover us issues an adverse or misleading opinion regarding us, our business model, our intellectual property or our stock performance, or if our clinical trials and operating results fail to meet the expectations of analysts, our stock price would likely decline. If one or more of these analysts cease coverage of us or fail to publish reports on us regularly, we could lose visibility in the financial markets, which in turn could cause our stock price or trading volume to decline.

We are an "emerging growth company" and as a result of the reduced disclosure and governance requirements applicable to emerging growth companies, our common stock may be less attractive to investors.

We are an "emerging growth company," as defined in the JOBS Act, and we intend to take advantage of certain exemptions from various reporting requirements that are applicable to other public companies that are not emerging growth companies including, but not limited to, not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act, reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved. We cannot predict if investors will find our common stock less attractive because we will rely on these exemptions. If some investors find our common stock less attractive as a result, there may be a less active trading market for our common stock and our stock price may be more volatile. We may take advantage of these reporting exemptions until we are no longer an emerging growth company. We will remain an emerging growth company until the earlier of (1) the last day of the fiscal year (a) following the fifth anniversary of the completion of this offering, (b) in which we have total annual gross revenue of at least \$1.07 billion, or (c) in which we are deemed to be a large accelerated filer, which means the market value of our common stock that is held by non-affiliates exceeds \$700 million as of the prior June 30, and (2) the date on which we have issued more than \$1.0 billion in non-convertible debt during the prior three-year period.

We have identified a material weakness in our internal control over financial reporting. If we are unable to remediate this material weakness, or if we experience additional material weaknesses in the future, we may not be able to accurately or timely report our financial condition or results of operations and investors may lose confidence in our financial reports and the market price of our common stock could be adversely affected.

As a public company, we will be required to maintain internal control over financial reporting and to report any material weaknesses in such internal control. Section 404 of the Sarbanes-Oxley Act requires that we evaluate and determine the effectiveness of our internal control over financial reporting and, beginning with our second annual report following this offering, which will be for our fiscal year ending December 31, 2019, provide a management report on internal control over financial reporting. The Sarbanes-Oxley Act also requires that our management report on internal control over financial reporting be attested to by our independent registered public accounting firm, to the extent we are no longer an "emerging growth company," as defined by the JOBS Act. We do not expect to have our independent registered public accounting firm attest to our management report on internal control over financial reporting for so long as we are an emerging growth company.

We are in the process of designing and implementing the internal control over financial reporting required to comply with this obligation, which process will be time consuming, costly and complicated. Prior to the completion of this offering, we have been a private company with limited accounting personnel and other resources to address our internal control over financial reporting. In preparation of our consolidated financial statements to meet the requirements for this offering, we determined that a material weakness in our internal control over financial reporting related to the accounting for complex transactions existed during each of the years ended December 31, 2016 and 2017, and was unremediated as of December 31, 2017. This material weakness contributed to an error to our consolidated financial statements for the year ended December 31, 2016 relating to the misclassification of our Series A Preferred Units as permanent equity instead of temporary equity. This deficiency did not result in a material misstatement to our 2016 consolidated financial statements.

To remediate this material weakness in our internal control over financial reporting and address the deficiency in our team's accounting processes, we plan to hire additional accounting personnel, establish and document accounting policies and procedures, and implement management review controls. While we intend to implement a plan to remediate this material weakness, we cannot predict the success of such plan or the outcome of our assessment of these plans at this time. We can give no assurance that this implementation will remediate this material weakness in our internal control or that material weaknesses or significant deficiencies in our internal control over financial reporting will not be identified in the future. If we are unable to remediate this material weakness, or if we experience additional material weaknesses in the future or otherwise fail to maintain an effective system of internal controls, we may not be able to accurately or timely report our financial condition or results of operations and investors may lose confidence in the accuracy and completeness of our financial reports and the market price of our common stock could be adversely affected, and we could become subject to investigations by the stock exchange on which our securities are listed, the SEC, or other regulatory authorities, which could require additional financial and management resources.

Purchasers in this offering will experience immediate and substantial dilution in the book value of their investment.

The initial public offering price of our common stock is substantially higher than the net tangible book value per share of our common stock immediately after this offering. Accordingly, if you purchase our common stock in this offering, you will incur immediate substantial dilution of approximately \$12.13 per share, based on the initial public offering price of \$15.00 per share. In addition, following this offering, purchasers in this offering will have contributed approximately 28.6% of the total gross consideration paid by stockholders to us to purchase shares of our common stock, but will own only approximately 15.6% of the shares of common stock outstanding immediately after this offering. Furthermore, if the underwriters exercise their option to purchase additional shares, outstanding options or convertible securities are exercised, or we sell shares of our common stock in future financings, you could experience further dilution. For a further description of the dilution that you will experience immediately after this offering, see the section titled "Dilution."

Sales of a substantial number of shares of our common stock in the public market could cause our stock price to fall.

If our existing stockholders sell, or indicate an intention to sell, substantial amounts of our common stock in the public market after the lock-up and other legal restrictions on resale discussed in this prospectus lapse, the trading price of our common stock could decline. Based upon the number of shares outstanding as of June 1, 2018, upon the closing of this offering, we will have outstanding a total of approximately 27.8 million shares of common stock, assuming no exercise of the underwriters' option to purchase additional shares. Of these shares, approximately 5.0 million shares or less of our common stock, plus any shares sold upon exercise of the underwriters' option to purchase additional shares, will be freely tradable, without restriction, in the public market immediately following this offering. Evercore Group L.L.C., however, may, in its sole discretion, permit our officers, directors and other stockholders who are subject to lock-up agreements to sell shares prior to the expiration of the lock-up agreements.

Certain of our direct and indirect unitholders, including entities affiliated with certain of our directors, have indicated an interest in purchasing an aggregate of \$20 million in shares of our common stock in this offering at the initial public offering price per share. Any such shares purchased by these holders who are considered to be our affiliates could not be resold in the public market immediately following this offering as a result of restrictions under securities laws, but would be able to be sold following the expiration of these restrictions as described in the "Shares Eligible for Future Sale" section of this prospectus.

The lock-up agreements pertaining to this offering will expire 180 days from the date of this prospectus. After the lock-up agreements expire, up to an additional approximately 23 million shares of common stock will be eligible for sale in the public market, approximately 16.9 million of which are held by current directors,

executive officers and other affiliates and may be subject to Rule 144 under the Securities Act of 1933, as amended, or the Securities Act.

In addition, upon expiration of the lock-up agreements noted above, approximately 0.5 million shares of common stock that are subject to outstanding options will become eligible for sale in the public market to the extent permitted by the provisions of various vesting schedules, the lock-up agreements and Rule 144 and Rule 701 under the Securities Act. If these additional shares of common stock are sold, or if it is perceived that they will be sold, in the public market, the trading price of our common stock could decline.

After this offering, the holders of approximately 16.7 million shares of our outstanding common stock, including shares issuable upon exercise of outstanding options, will be entitled to rights with respect to the registration of their shares under the Securities Act, subject to vesting schedules and to the lock-up agreements described above. Registration of these shares under the Securities Act would result in the shares becoming freely tradable without restriction under the Securities Act, except for shares purchased by affiliates. Any sales of securities by these stockholders could have a material adverse effect on the trading price of our common stock.

Our principal stockholders and management own a significant percentage of our stock and will be able to exert significant control over matters subject to stockholder approval.

As of June 1, 2018, our executive officers, directors, holders of 5% or more of our capital stock and their respective affiliates, including Core Ventures II, LLC and Core Ventures IV, LLC, entities controlled by two of our directors, Joseph P. Errico and Thomas J. Errico, M.D., and Merck Global Health Innovation Fund, LLC, beneficially owned approximately 17.4 million shares of our outstanding voting stock and, upon the closing of this offering, that same group will beneficially own approximately 62.5% of our outstanding voting stock (assuming no exercise of the underwriters' option to purchase additional shares and no exercise of outstanding options). Therefore, even after this offering these stockholders will have the ability to influence us through this ownership position. These stockholders may be able to determine all matters requiring stockholder approval. For example, these stockholders may be able to control elections of directors, amendments of our organizational documents, or approval of any merger, sale of assets, or other major corporate transaction. This may prevent or discourage unsolicited acquisition proposals or offers for our common stock that you may feel are in your best interest as one of our stockholders.

Provisions in our charter documents and under Delaware law could discourage a takeover that stockholders may consider favorable and may lead to entrenchment of management.

Our certificate of incorporation and bylaws that will be in effect prior to the consummation of this offering will contain provisions that could significantly reduce the value of our shares to a potential acquirer or delay or prevent changes in control or changes in our management without the consent of our board of directors. The provisions in our charter documents will include the following:

- a classified board of directors with three-year staggered terms, which may delay the ability of stockholders to change the membership of a
 majority of our board of directors;
- no cumulative voting in the election of directors, which limits the ability of minority stockholders to elect director candidates;
- the exclusive right of our board of directors to elect a director to fill a vacancy created by the expansion of the board of directors or the resignation, death or removal of a director, which prevents stockholders from being able to fill vacancies on our board of directors;
- the required approval of at least 66 2/3% of the shares entitled to vote to remove a director for cause, and the prohibition on removal of directors without cause:
- the ability of our board of directors to authorize the issuance of shares of preferred stock and to determine the price and other terms of those shares, including preferences and voting rights, without stockholder approval, which could be used to significantly dilute the ownership of a hostile acquiror;

- the ability of our board of directors to alter our bylaws without obtaining stockholder approval;
- the required approval of at least 66 2/3% of the shares entitled to vote at an election of directors to adopt, amend or repeal our bylaws or repeal the provisions of our amended and restated certificate of incorporation regarding the election and removal of directors;
- a prohibition on stockholder action by written consent, which forces stockholder action to be taken at an annual or special meeting of our stockholders:
- the requirement that a special meeting of stockholders may be called only by the chairman of the board of directors, the chief executive officer, the president or the board of directors, which may delay the ability of our stockholders to force consideration of a proposal or to take action, including the removal of directors; and
- advance notice procedures that stockholders must comply with in order to nominate candidates to our board of directors or to propose
 matters to be acted upon at a stockholders' meeting, which may discourage or deter a potential acquiror from conducting a solicitation of
 proxies to elect the acquiror's own slate of directors or otherwise attempting to obtain control of us.

In addition, these provisions would apply even if we were to receive an offer that some stockholders may consider beneficial.

We are also subject to the anti-takeover provisions contained in Section 203 of the Delaware General Corporation Law. Under Section 203, a corporation may not, in general, engage in a business combination with any holder of 15% or more of its capital stock unless the holder has held the stock for three years or, among other exceptions, the board of directors has approved the transaction. For a description of our capital stock, see the section titled "Description of Capital Stock."

Claims for indemnification by our directors and officers may reduce our available funds to satisfy successful third-party claims against us and may reduce the amount of money available to us.

Our certificate of incorporation and bylaws provide that we will indemnify our directors and officers to the fullest extent permitted by Delaware law.

In addition, as permitted by Section 145 of the Delaware General Corporation Law, or the DGCL, our amended and restated bylaws to be effective immediately prior to the completion of this offering and our indemnification agreements that we have entered into with our directors and officers provide that:

- we will indemnify our directors and officers for serving us in those capacities or for serving other business enterprises at our request, to the fullest extent permitted by Delaware law. Delaware law provides that a corporation may indemnify such person if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the registrant and, with respect to any criminal proceeding, had no reasonable cause to believe such person's conduct was unlawful;
- · we may, in our discretion, indemnify employees and agents in those circumstances where indemnification is permitted by applicable law;
- we are required to advance expenses, as incurred, to our directors and officers in connection with defending a proceeding, except that such directors or officers shall undertake to repay such advances if it is ultimately determined that such person is not entitled to indemnification;
- we will not be obligated pursuant to our amended and restated bylaws to indemnify a person with respect to proceedings initiated by that person against us or our other indemnitees, except with respect to proceedings authorized by our board of directors or brought to enforce a right to indemnification;

- the rights conferred in our amended and restated bylaws are not exclusive, and we are authorized to enter into indemnification agreements with our directors, officers, employees and agents and to obtain insurance to indemnify such persons; and
- we may not retroactively amend our amended and restated bylaw provisions to reduce our indemnification obligations to directors, officers, employees and agents.

We do not currently intend to pay dividends on our common stock, and, consequently, your ability to achieve a return on your investment will depend on appreciation in the price of our common stock.

We do not currently intend to pay any cash dividends on our common stock for the foreseeable future. We currently intend to invest our future earnings, if any, to fund our growth. Therefore, you are not likely to receive any dividends on your common stock for the foreseeable future. Since we do not intend to pay dividends, your ability to receive a return on your investment will depend on any future appreciation in the market value of our common stock. There is no guarantee that our common stock will appreciate or even maintain the price at which our holders have purchased it.

Comprehensive U.S. federal income tax reform could adversely affect us.

On December 22, 2017, President Trump signed into law the "Tax Cuts and Jobs Act", or TCJA, that significantly reforms the Internal Revenue Code of 1986, or the Code, as amended. The TCJA, among other things, includes changes to U.S. federal tax rates, imposes significant additional limitations on the deductibility of interest, allows for the expensing of capital expenditures, and puts into effect the migration from a "worldwide" system of taxation to a modified territorial system. We continue to examine the impact this tax reform legislation may have on our business. The impact of this tax reform on holders of our common stock is uncertain and could be adverse. This prospectus does not discuss any such tax legislation or the manner in which it might affect purchasers of our common stock. We urge our stockholders, including purchasers of common stock in this offering, to consult with their legal and tax advisors with respect to such legislation and the potential tax consequences of investing in our common stock.

Our amended and restated certificate of incorporation provides that the Court of Chancery of the State of Delaware and the federal district courts of the United States will be the exclusive forums for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers, or employees.

Our certificate of incorporation provides that the Court of Chancery of the State of Delaware is the exclusive forum for:

- any derivative action or proceeding brought on our behalf;
- any action asserting a breach of fiduciary duty;
- any action asserting a claim against us arising under the Delaware General Corporation Law, our certificate of incorporation, or our bylaws;
 and
- any action asserting a claim against us that is governed by the internal-affairs doctrine.

Our certificate of incorporation further provides that the federal district courts of the United States will be the exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act.

These exclusive-forum provisions may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers, or other employees, which may discourage lawsuits against us and our directors, officers, and other employees. If a court were to find either exclusive-forum provision in our certificate of incorporation to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving the dispute in other jurisdictions, which could seriously harm our business.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains statements that express our opinions, expectations, beliefs, plans, objectives, assumptions or projections regarding future events or future results, in contrast with statements that reflect historical facts. Many of these statements are contained under the headings "Prospectus Summary," "Management's Discussion and Analysis of Financial Condition and Results of Operations" and "Business." In some cases, we have identified such forward-looking statements with typical conditional words such as "anticipate," "intend," "believe," "estimate," "plan," "seek," "project," "expect," "may," "will," "would," "could," "should," the negative of these terms or other comparable terminology.

Forward-looking statements are not a guarantee of performance, and you should not place undue reliance on such statements. We have based forward-looking statements largely on our current expectations and projections about future events. Forward-looking statements are subject to many uncertainties and other variable circumstances, including those discussed in this prospectus under the headings "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations," many of which are outside of our control, that could cause our actual results and experience to differ materially from any forward-looking statement. Given these risks and uncertainties, you are cautioned not to place undue reliance on these forward-looking statements. The forward-looking statements included in this prospectus are made only as of the date hereof. We do not undertake, and specifically decline, any obligation to update any such statements or to publicly announce the results of any revisions to any of such statements to reflect future events or developments.

USE OF PROCEEDS

We estimate, based upon an assumed initial public offering price of \$15.00 per share, which is the midpoint of the price range set forth on the cover page of this prospectus, we will receive net proceeds from this offering of approximately \$56.5 million (or \$65.6 million if the underwriters exercise their option to purchase additional shares of common stock in full), after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

The principal purposes of this offering are to obtain additional capital to support our operations, create a public market for our common stock and to facilitate future access to the public equity markets. We currently estimate that we will use the net proceeds from this offering as follows:

- (i) approximately \$35.0 million to fund our activities related to commercialization of our gammaCore products, including the full market launch of such products in the United States, initially for the acute treatment of migraine and episodic cluster headache. For example, we intend to hire additional territory business managers which will expand our coverage of high-prescribers of headache medications. We also expect to use a portion of these funds to create and develop patient and professional promotional tactics across multiple channels including social, digital, and print media;
- (ii) approximately \$10.0 million to fund expansion of our clinical program into additional indications in headache and rheumatology. For example, in 2018, we expect to initiate trials to support potential label expansion in headache, including pivotal trials in migraine prevention and migraine in adolescents, and pilot trials in post-traumatic headache. In 2018, we also expect to initiate a pivotal trial in Sjögren's syndrome, our first rheumatology indication, and over the next 24 months, we expect to initiate a pivotal trial in rheumatoid arthritis. We also expect to deploy proceeds from this offering to conduct premarket activities in rheumatology consisting of market analysis, physician and patient segmentation research, and promotional/campaign development;
- (iii) approximately \$3.0 million to fund the build out of our specialty distribution channel for the anticipated launch of gammaCore Sapphire, the successor to gammaCore, in the third quarter of 2018. For example, our specialty distribution platform will require specialized scanning hardware at every specialty pharmacy site, a data warehouse with custom software, training of specialty pharmacists, and support within the network for handling patient volume; and
 - (iv) the remaining balance for working capital, including inventory, and other corporate purposes.

In addition, we may also use a portion of our net proceeds from this offering to acquire and invest in complementary products, technologies, services or businesses; however, we currently have no plans, agreements or commitments to complete any such transaction nor are we involved in negotiations to do so.

Our expected use of net proceeds from this offering represents our current intentions based upon our plans and business condition. As of the date of this prospectus, we cannot predict with certainty all of the particular uses for the net proceeds to be received upon the completion of this offering or the amounts that we will actually spend on the uses set forth above. The amounts and timing of our actual use of the net proceeds will vary depending on numerous factors, including the factors described under the heading "Risk Factors" in this prospectus. As a result, management will have broad discretion in its application of the net proceeds, and investors will be relying on our judgment in such application.

Pending use of the net proceeds from this offering, we may invest in short- and intermediate-term interest-bearing obligations, investment-grade instruments, certificates of deposit or direct or guaranteed obligations of the U.S. government.

Although it is difficult to predict future liquidity requirements, we believe that the net proceeds from this offering, together with our existing cash and cash equivalents, will be sufficient to fund our operations for at least the next 12 months, and that thereafter we may need additional funding to finance our commercialization, clinical development and specialty distribution activities.

DIVIDEND POLICY

We have never declared or paid cash dividends on our capital stock. We do not expect to pay dividends on our common stock for the foreseeable future. Instead, we anticipate that all of our earnings, if any, will be used for the operation and growth of our business. Any future determination to declare cash dividends would be subject to the discretion of our board of directors and would depend upon various factors, including our results of operations, financial condition and capital requirements, restrictions that may be imposed by applicable law and our contracts and other factors deemed relevant by our board of directors.

CORPORATE CONVERSION

We currently operate as a Delaware limited liability company under the name Electrocore, LLC. Prior to the closing of this offering, Electrocore, LLC will convert into a Delaware corporation pursuant to a statutory conversion and change its name to electroCore, Inc. In order to consummate the corporate conversion, a certificate of conversion will be filed with the Secretary of State of the State of Delaware. As part of the corporate conversion (after giving effect to the automatic conversion of our Preferred Units) and satisfaction of the accrued preferred return on our Series A Preferred Units, based on the assumed initial public offering price of \$15.00 per share, which is the midpoint of the price range set forth on the cover page of this prospectus, all Units will be converted into an aggregate of 23,470,034 shares of our common stock and options to purchase 2,146,039 shares of our common stock as follows:

- holders of our common units, or Common Units, other than Common Units that were originally issued as "profits interests" (as such term is used for purposes of the Code), or Profits Interests, will receive an aggregate of 12,099,280 shares of our common stock;
- holders of our Series A Preferred Units will receive an aggregate of 4,181,856 shares of our common stock, which includes 241,939 shares
 of our common stock as payment in full of the approximately \$3.6 million accrued and unpaid preferred return payable in respect of the
 Series A Preferred Units;
- holders of our Series B Preferred Units will receive an aggregate of 5,843,668 shares of our common stock; and
- holders of our Profits Interests will receive an aggregate of 1,345,230 shares of our common stock and, with respect to such holders who are
 our employees or consultants at the time of the corporate conversion, options to purchase an aggregate of 2,146,039 shares of our common
 stock, with an exercise price equal to the initial public offering price.

In addition, based on the assumed initial public offering price of \$15.00 per share, which is the midpoint of the price range set forth on the cover page of this prospectus:

- warrants, other than warrants that expire in connection with this offering, to purchase Common Units will be converted into warrants to purchase 151,364 shares of our common stock;
- warrants to purchase Series A Preferred Units will be converted into warrants to purchase 20,561 shares of our common stock; and
- warrants to purchase Series B Preferred Units will be converted into warrants to purchase 550,040 shares of our common stock.

The number of shares of common stock and the number of shares of common stock issuable pursuant to options and warrants in connection with the corporate conversion will be determined pursuant to the applicable provisions of the plan of conversion, which is based upon terms of our Operating Agreement. The Operating Agreement provides that each outstanding series of our Preferred Units will automatically convert (which we refer to as the Automatic Conversion) into Common Units at the applicable conversion ratio (currently, on a one-for-one basis) upon either the closing of a Qualified Public Offering, as defined in the Operating Agreement, or the written consent executed by members of Electrocore, LLC holding a sufficient number of each class of our Preferred Units and Common Units as required under our Operating Agreement. We anticipate receiving written consents from the required holders of our Units to effect the Automatic Conversion.

Following the Automatic Conversion and effective upon the consummation of the corporate conversion, all of the outstanding Units will convert into a number of shares of common stock and options to purchase common stock of electroCore, Inc. based upon the value of Electrocore, LLC at the time of this offering with a value implied by the initial public offering price of the shares of common stock sold in this offering. Upon conversion, the shares of common stock of electroCore, Inc. and options to purchase our common stock will be allocated among the various classes and series of Units in accordance with the distribution and other applicable provisions

set forth in the Operating Agreement. Similarly, the number of shares of common stock for which warrants will become exercisable following the corporate conversion will be determined based on the terms of such warrants. No cash or fractional shares of common stock will be issued in connection with the corporate conversion.

Immediately prior to the corporate conversion, all outstanding Preferred Units of Electrocore, LLC will first be converted into our Common Units on a one-for-one basis and thereafter in connection with the corporate conversion all Common Units, other than Common Units issued as Profits Interests, will be converted into common stock on a one share of common stock for every 18 Unit basis. In addition, we expect to issue 241,939 shares of our common stock to the holders of our Series A Preferred Units to satisfy approximately \$3.6 million of accrued and unpaid preferred return on such units. Additionally, in connection with the corporate conversion, our Profits Interests will be converted into (i) shares of our common stock, and (ii) with respect to Profits Interests that are held by our current employees and consultants at the time of the conversion, options to purchase our common stock. The number of shares of common stock and the number of options to be issued to each such holder of Profits Interests will be determined based upon the appreciation in our value after the date of grant of the applicable Profits Interests through the completion of this offering. The exercise price of these options will be equal to the initial public offering price. Following the corporate conversion, the vesting provisions applicable to the Profits Interests as in effect prior to the corporate conversion will apply, in substantially the same manner, to the shares of common stock and options issued in respect of such Profits Interests in the corporate conversion.

Because the exact number of shares of our common stock to be issued to holders of Units in the corporate conversion, the number of shares of common stock for which warrants will be exercisable following the corporate conversion and the number of shares of common stock and options to purchase common stock that holders of Profits Interests will receive in the corporate conversion is based on the initial public offering price, to the extent that the actual initial public offering price per share for this offering is greater or less than \$15.00, which is the midpoint of the price range set forth on the cover page of this prospectus, the actual number of shares of common stock to be issued to holders of Units, the number of shares of common stock for which options and warrants will be exercisable and the total number of shares of common stock outstanding following the corporate conversion will be adjusted accordingly. See "Pricing Sensitivity Analysis" for how the number of shares to be issued in the corporate conversion or issuable thereafter upon exercise of options and warrants would be affected by an initial public offering price per share of common stock at the low-, mid- and high-points of the estimated price range set forth on the cover of this prospectus or if the underwriters' option to purchase additional shares of common stock is exercised in full.

In connection with the corporate conversion, electroCore, Inc. will hold all property and assets of Electrocore, LLC and all of the debts and obligations of ElectroCore, LLC will become the debts and obligations of electroCore, Inc. by operation of law. electroCore, Inc. will be governed by a certificate of incorporation filed with the Delaware Secretary of State and bylaws, the material portions of each of which are described under the heading "Description of Capital Stock."

On the effective date of the corporate conversion, the members of the board of managers of Electrocore, LLC will become the members of electroCore, Inc.'s board of directors and the officers of Electrocore, LLC will become the officers of electroCore, Inc.

The purpose of the corporate conversion is to reorganize our corporate structure so that the entity that is offering common stock to the public in this offering is a corporation rather than a limited liability company and so that our existing investors will own our common stock rather than equity interests in a limited liability company. References in this prospectus to our capitalization and other matters pertaining to our equity and shares prior to the corporate conversion relate to the capitalization and equity and units of Electrocore, LLC, and after the corporate conversion, to electroCore, Inc.

The audited consolidated financial statements included elsewhere in this prospectus are those of Electrocore, LLC and its subsidiaries and affiliate. We expect that our conversion from a Delaware limited liability company to a Delaware corporation will not have a material effect on our consolidated financial statements at the time of the corporate conversion.

CAPITALIZATION

The following table sets forth our cash, cash equivalents, debt securities and other investments available for sale and securities and our capitalization as of March 31, 2018:

- on an actual basis;
- on a pro forma basis to give effect to the corporate conversion, based on the assumed initial public offering price of \$15.00 per share, which is the midpoint of the price range set forth on the cover page of this prospectus; and
- on a pro forma as adjusted basis to give further effect to the sale of 4,333,333 shares of our common stock in this offering, assuming an initial public offering price of \$15.00 per share, which is the midpoint of the price range set forth on the cover page of this prospectus, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

The pro forma and pro forma as adjusted information below is illustrative only, and our capitalization following the corporate conversion and the closing of this offering will depend on the actual initial public offering price and other terms of this offering determined at pricing. You should read the following information together with the information contained under the headings "Selected Consolidated Financial Data" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our audited and unaudited consolidated financial statements and the accompanying notes appearing elsewhere in this prospectus.

	As of March 31, 2018		
	Actual	Pro forma(1) (2)	Pro forma as adjusted(3)
	(unaudited; in thousands, except unit and share data)		
Cash, cash equivalents, debt securities and other investments available for sale	\$ 26,706.5	\$ 26,706.5	\$ 84,588.7
Warrant liability	\$ 2,485.4	\$ 2,485.4	\$ 2,485.4
Convertible Preferred Units:			
Series A Preferred Units, 71,050,860 units authorized, 70,918,506 units issued and			
outstanding, actual; none issued and outstanding, pro forma, and pro forma as adjusted	53,518.5	_	_
Series B Preferred Units, 123,000,000 units authorized, 105,186,020 units issued and			
outstanding, actual; none issued and outstanding, pro forma, and pro forma as adjusted	68,755.5	<u> </u>	
Total convertible Preferred Units	122,274.0	_	_
Members'/ stockholders' equity:			
Preferred stock, par value \$0.001 per share; no shares authorized, issued and outstanding,			
actual; 10,000,000 shares authorized, none issued and outstanding, pro forma, and pro			
forma as adjusted		_	_
Common stock, par value \$0.001 per share; no shares authorized, issued and outstanding,			
actual; 500,000,000 shares authorized, none issued and outstanding, pro forma;		22.2	27.6
27,561,428 shares issued and outstanding, pro forma as adjusted	_	23.2	27.6
Common Units, 600,000,000 units authorized, 218,982,140 units issued and outstanding,	40 100 C		
actual; none issued and outstanding, pro forma, and pro forma as adjusted	40,180.6	105 205 0	
Additional paid-in-capital Accumulated deficit	22,863.6	185,295.0	241,790.6
	(162,427.5)	(162,427.5)	(162,427.5)
Accumulated other comprehensive income	(59.0) 609.1	(59.0) 609.1	(59.0) 609.1
Noncontrolling interest			
Total members'/stockholders' equity (deficit)	(98,833.1)	23,440.8	79,940.8
Total capitalization	\$ 25,926.3	\$ 25,926.2	\$ 82,426.2

- (1) In connection with the corporate conversion, Common Units, Series A Preferred Units, Series B Preferred Units, additional paid-in capital and accumulated deficit will be reduced to zero to reflect the elimination of all outstanding Units and other interests in Electrocore, LLC and corresponding adjustments will be reflected as common stock, additional paid-in capital, and total stockholders' equity (deficit).
- (2) The following table presents the number of shares of common stock issuable in connection with the corporate conversion to holders of Series A Preferred Units, Series B Preferred Units, Common Units and Profits Interests, based on the assumed initial public offering price per common share of \$15.00, which is the midpoint of the price range set forth on the cover page of this prospectus.

Common stock issuable for:	
Common Units	12,099,280
Series A Preferred Units	3,939,917
Series B Preferred Units	5,843,668
Profits Interests	1,345,230
Total	23,228,095

The capitalization table presented above excludes, after giving effect to the corporate conversion:

- 2,146,039 shares of common stock issuable upon exercise of outstanding options or options to be issued for certain Profits Interests to purchase shares of common stock, at a weighted-average exercise price equal to the assumed initial public offering price per share of common stock of \$15.00, which is the midpoint of the price range set forth on the cover page of this prospectus; and
- an additional 2,708,731 shares of common stock reserved for future issuance under the 2018 Plan, as well as any increase in the number of shares of common stock reserved for future issuance under the 2018 Plan; and
- 721,965 shares issuable upon the exercise of warrants at a weighted-average exercise price of \$12.50 per share following the corporate conversion. See "Corporate Conversion" and "Pricing Sensitivity Analysis" for additional information; and
- 241,939 shares of common stock issuable in satisfaction of the accrued preferred return on the Series A Preferred Units.
- (3) Each \$1.00 increase (decrease) in the assumed initial public offering price of \$15.00 per share, which is the midpoint of the price range set forth on the cover page of this prospectus, would increase (decrease) the pro forma as adjusted amount of each of cash, cash equivalents, debt securities and other investments available for sale, additional paid-in-capital, total stockholders' equity and total capitalization by approximately \$4.0 million, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. Similarly, each increase (decrease) of 1.0 million shares in the number of shares offered by us at the assumed initial public offering price of \$15.00 per share, which is the midpoint of the price range set forth on the cover page of this prospectus, would increase (decrease) the pro forma as adjusted amount of each of cash, cash equivalents, debt securities and other investments available for sale, additional paid-in-capital, total stockholders' equity and total capitalization by approximately \$14.0 million.

DILUTION

If you invest in our common stock, your ownership interest will be diluted immediately to the extent of the difference between the initial public offering price per share of our common stock and the pro forma as adjusted net tangible book value per share of our common stock immediately after this offering. Net tangible book value per share represents the book value of our total tangible assets less the book value of our total liabilities divided by the number of shares of common stock then issued and outstanding.

After giving effect to the corporate conversion, pro forma net tangible book value as of March 31, 2018 was \$23.4 million, or \$1.01 per share based on the 23,228,095 shares of common stock issued and outstanding after the corporate conversion based on an assumed initial public offering price of \$15.00 per share (the midpoint of the price range set forth on the cover page of this prospectus). After giving effect to our sale of common stock in this offering at the initial public offering price of \$15.00 per share (the midpoint of the price range set forth on the cover page of this prospectus), and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us, our pro forma as adjusted net tangible book value as of March 31, 2018 would have been \$79.0 million, or \$2.87 per share (assuming no exercise of the underwriters' option to purchase additional shares of our common stock). This represents an immediate and substantial dilution of \$12.13 per share to new investors purchasing common stock in this offering. The following table illustrates this dilution per share:

Assumed initial public offering price per share		\$15.00
Pro forma net tangible book value per share as of March 31, 2018	\$1.01	
Increase in net tangible book value per share attributable to this offering	\$1.86	
Pro forma as adjusted net tangible book value per share after giving effect to this offering		\$ 2.87
Dilution per share to new investors in this offering		\$12.13

If the underwriters exercise their option to purchase additional shares in full, our pro forma as adjusted net tangible book value per share after this offering would be \$3.12 per share, and the dilution in pro forma net tangible book value per share to new investors in this offering would be \$11.88 per share.

The following table summarizes, on a pro forma as adjusted basis as of March 31, 2018, the differences between the number of shares of common stock purchased from us, the total price and the average price per share paid by existing stockholders and by the new investors in this offering, before deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us, at an assumed initial public offering price of \$15.00 per share (the midpoint of the price range set forth on the cover page of this prospectus).

	Shares pu	Shares purchased		Shares purchased Total consideration			Average price per		
	<u>Number</u>	Percent	Amount (in millions)	Percent	share				
Existing investors	23.2	84.4%	\$ 162.50	71.4%	\$ 6.99				
New investors in this offering	4.3	15.6%	65.00	28.6%	\$ 15.00				
Total	27.6	100.0%	\$ 227.50	100.0%	\$ 8.25				

See "Pricing Sensitivity Analysis" for how some of the information presented above would be affected by an initial public offering price per share of common stock at the low-, mid- and high-points of the estimated price range set forth on the cover of this prospectus or if the underwriters' option to purchase additional shares of common stock is exercised in full.

The discussion and table above assume no exercise of stock options that will be outstanding after giving effect to the corporate conversion and no issuance of shares of our common stock reserved for issuance under our 2018 Plan, which include:

- 2,146,039 shares issuable upon the exercise of options to be outstanding after giving effect to the corporate conversion at an exercise price equal to the initial public offering price of \$15.00 per share following the corporate conversion;
- 721,965 shares issuable upon the exercise of warrants at a weighted-average exercise price of \$12.50 per share following the corporate conversion; and
- 2,708,731 shares of common stock reserved for issuance pursuant to future awards under the 2018 Plan, which will become effective immediately prior to the consummation of this offering.

The discussion and table also does not give effect to the issuance of 241,939 shares of common stock in satisfaction of approximately \$3.6 million of accrued but unpaid preferred return to holders of our Series A Preferred Units based upon an assumed offering price of \$15.00 per share, which is the midpoint of the price range set forth on the cover page of this prospectus.

If, after giving effect to the corporate conversion, all of our outstanding options to be outstanding after giving effect to the corporate conversion and warrants were exercised, our pro forma as adjusted net tangible book value as of March 31, 2018 would have been \$2.48 per share and our pro forma as adjusted net tangible book value after giving effect to this offering would have been \$3.98 per share, causing dilution to new investors purchasing shares in this offering of \$11.02 per share. Shares purchased by new investors would then represent 14.2% of the shares purchased from us for 24.4% of the total consideration.

To the extent that options to be outstanding after giving effect to the corporate conversion are exercised, new options are issued under the 2018 Plan, or we issue additional shares of common stock in the future, there will be further dilution to investors participating in this offering. In addition, we may choose to raise additional capital because of market conditions or strategic considerations, even if we believe that we have sufficient funds for our current or future operating plans. If we raise additional capital through the sale of equity or convertible debt securities, the issuance of these securities could result in further dilution to our stockholders.

The number of shares of common stock of electroCore, Inc. that holders of units will receive in the corporate conversion and the number of shares of common stock that options and warrants will be exercisable for following the corporate conversion will vary depending on the initial public offering price set forth on the cover page of this prospectus. See "Corporate Conversion and "Pricing Sensitivity Analysis" for additional information.

Certain of our direct and indirect unitholders, including entities affiliated with certain of our directors, have indicated an interest in purchasing an aggregate of \$20 million in shares of our common stock in this offering at the initial public offering price per share. Based on an assumed initial public offering price of \$15.00 per share, these holders would purchase up to an aggregate of 1,333,333 of the 4,333,333 shares in this offering based on these indications of interest. However, because indications of interest are not binding agreements or commitments to purchase, these holders may determine to purchase fewer shares than they indicate an interest in purchasing or not to purchase any shares in this offering. It is also possible that these holders could indicate an interest in purchasing more shares of our common stock. In addition, the underwriters could determine to sell fewer shares to any of these holders than the holders indicate an interest in purchasing or not to sell any shares to these holders. The foregoing discussion and tables do not reflect any of these potential purchases by these holders or their affiliated entities.

SELECTED CONSOLIDATED FINANCIAL DATA

The selected consolidated statements of operations data for the three months ended March 31, 2018 and 2017 and the selected consolidated balance sheet data as of March 31, 2018 are derived from our unaudited consolidated financial statements included elsewhere in this prospectus. The selected consolidated statement of operations data for the years ended December 31, 2017 and 2016 and the selected consolidated balance sheet data as of December 31, 2017 and 2016 are derived from our audited consolidated financial statements included elsewhere in this prospectus. We have prepared the unaudited consolidated financial information set forth below on the same basis as our audited consolidated financial statements and have included all adjustments, consisting of only normal recurring adjustments, that we consider necessary for fair presentation of our financial position and operating results for such periods. Our historical results are not necessarily indicative of the results that may be expected in any future period. The results for any interim period are not necessarily indicative of the results that may be expected consolidated financial data below should be read in conjunction with the section entitled "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our audited and unaudited consolidated financial statements and related notes included elsewhere in this prospectus.

		Three months ended March 31,				December 31,		
		2018	I'. I\	2017		2017		2016
	(unaudited) (in thousands, except unit a			it and p	er unit amounts	s)		
Consolidated statements of operations:		`		, ,			<i>'</i>	
Net sales	\$	81.2	\$	116.9	\$	811.5	\$	254.1
Cost of goods sold		48.9		72.7		518.6		123.7
Gross profit		32.2		44.2		292.9		130.4
Operating expenses								
Research and development		2,306.3		1,726.6		7,830.9		7,971.3
Selling, general and administrative		6,824.8		3,059.3		18,106.6		7,169.3
Total operating expenses		9,131.1		4,785.8		25,937.5		15,140.6
Loss from operations		(9,098.9)		(4,741.6)		(25,644.6)	(15,010.2)
Other expense (income)							Ì	
Interest expense		_		1,040.1		6,295.9		234.4
Net loss on settlement of convertible bridge notes		_		_		3,868.8		_
Amortization of debt issuance costs		_		269.2		827.3		536.9
Change in fair value of warrant liability		245.9		178.0		(861.8)		_
Change in fair value of derivative instrument related to convertible								
bridge notes		_		128.1		348.2		_
Interest and other income, net		(109.3)		_		(99.0)		_
Other		208.1				4.9		
Net loss		(9,443.5)		(6,356.9)		(36,028.9)	(15,781.5)
Less Net income (loss) attributable to noncontrolling interest		55.0				(236.4)		(44.1)
Net loss attributable to Electrocore, LLC, subsidiaries and								
affiliate	\$	(9,498.5)	\$	(6,356.9)	\$	(35,792.5)	\$ (15,737.4)
Pro forma net loss per share data(1):			_		_			
Pro forma net loss per share — basic and diluted (unaudited)	\$	(0.36)	\$	(0.72)	\$	(2.16)	\$	(1.80)
Pro forma weighted average number of common shares used to calculate		, ,		` ,		` ′		` ,
loss per share — basic and diluted (unaudited)	2	1,949,259	9	,266,116	17	7,127,652	8	,364,789
•		•						

	As of March 31,	As of Dec	ember 31,
	2018	2017	2016
	(Unaudited)	in thousands	
Consolidated balance sheet data:			
Cash and cash equivalents	\$ 1,520.5	\$ 13,224.2	\$ 416.3
Debt securities and other investments available for sale	25,186.0	23,950.6	_
Working capital(2)	23,397.0	32,914.1	(3,629.4)
Total assets	31,274.7	39,232.7	622.0
Long-term debt	_	_	3,666.0
Series A Preferred Units	53,518.5	53,518.5	53,518.5
Series B Preferred Units	68,755.5	68,755.5	_
Common Units	40,180.6	40,180.6	30,912.1
Total members'/stockholders' equity (deficit)	(98,833.1)	(89,467.6)	(61,053.5)

⁽¹⁾ We have presented pro forma basic and diluted net loss per share for the three months ended March 31, 2018 and the years ended December 31, 2017 and 2016, which consists of our historical net loss attributable to Electrocore LLC, subsidiaries and affiliate, divided by the pro forma basic and diluted weighted average number of shares of common stock outstanding after giving effect to the conversion of all of our outstanding Common Units, Series A Preferred Units and Series B Preferred Units into 23,228,095 shares of our common stock prior to the closing of this offering. Net loss used in calculating net loss per share does not reflect (i) the estimated expenses of this offering or (ii) compensation and expenses for our board of directors and other costs related to operating as a public company. For more information on how we calculate basic and diluted pro forma weighted average number of shares outstanding, see Note 9 to our audited consolidated financial statements and Note 11 to our unaudited consolidated financial statements included elsewhere in this prospectus. The calculations described above do not give effect to the potential issuance of 241,939 shares of common stock at the initial public offering price in satisfaction of accrued but unpaid preferred return to our preferred stockholders (which we expect to pay in shares of common stock valued at the offering price).

⁽²⁾ We define working capital as current assets less current liabilities.

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion of our results of operations and financial condition should be read together with the "Selected Consolidated Financial Data" section, our audited and unaudited historical financial statements and the notes therein included in this prospectus as well as the discussion in the Business section of this prospectus. This discussion contains forward-looking statements that involve risks and uncertainties. The forward-looking statements are not historical facts, but rather are based on current expectations, estimates, assumptions and projections about our industry, business and future financial results. Our actual results could differ materially from the results contemplated by these forward-looking statements due to a number of factors, including those discussed in the sections of this prospectus entitled "Risk Factors" and "Special Note Regarding Forward-Looking Statements."

Overview

We are a commercial-stage bioelectronic medicine company with a platform non-invasive vagus nerve stimulation therapy initially focused on neurology and rheumatology. Our therapy, gammaCore, has pharmacologic effects on the peripheral and central nervous systems, which modulate neurotransmitters and immune function. gammaCore is FDA-cleared for the acute treatment of pain associated with migraine and episodic cluster headache. Based on our clinical data, we are pursuing label expansions for the prevention of migraine, migraine in adolescents and post-traumatic headache, and are also engaging in clinical development for potential new labeling claims in rheumatology, including Sjögren's syndrome and rheumatoid arthritis.

Following our initial FDA clearance, our commercial strategy has been to establish gammaCore as a first-line treatment option for episodic cluster headache patients, who have few alternative treatment options available to them. This strategy is supported by a product registry initiated in July 2017 to build advocacy among key opinion leaders in 55 leading headache centers in the United States, and to generate patient demand in the form of prescriptions submitted to payors. We intend to leverage this advocacy as we expand into the broader headache market for both migraine and cluster headache in the third quarter of 2018.

Since our inception in 2005, we have devoted substantially all of our resources to the development of vagus nerve stimulation, or VNS, and the commercialization of our gammaCore therapy. Since our inception, we have received gross cash proceeds of approximately \$160.3 million from the sale of our equity securities, including the conversion or exercise of our convertible promissory notes, term loan and warrants. From August 2017 through December 2017, in connection with closings of our Series B Preferred Unit financing, we received net cash proceeds of approximately \$44.5 million net of the conversion of outstanding convertible promissory notes, or Bridge Notes, accrued interest thereon and advisor fees.

We have never been profitable and have incurred net losses in each year since our inception. We incurred net losses of \$9.5 million and \$6.4 million for the three months ended March 31, 2018 and March 31, 2017, respectively, and net losses of \$35.8 million and \$15.7 million for the years ended December 31, 2017 and December 31, 2016, respectively. As of March 31, 2018, our accumulated deficit was \$162.4 million. We expect to continue to incur substantial net losses and negative cash flows from operations for at least the next several years as we commercialize gammaCore for the acute treatment of pain associated with migraine and episodic cluster headache in adults. We intend to make a significant investment in building our U.S. commercial infrastructure and in recruiting and training our sales representatives. We also intend to continue to make significant investments in research and development to expand our gammaCore therapy for the treatment of other indications, including additional headache conditions and rheumatology. Furthermore, upon the closing of this offering, we expect to incur additional costs associated with operating as a public company, including significant legal, accounting, investor relations and other expenses that we did not incur as a private company.

As a result, we will need substantial additional funding to support our continuing operations and pursue our growth strategy. Until such time as we can generate sufficient revenue to cover our operating expenses and

growth strategy, if ever, we expect to finance our operations through the sale of equity, debt financings or other capital sources, including potential collaborations with other companies and other strategic transactions. We may be unable to raise additional funds or enter into such other agreements or arrangements when needed on favorable terms, or at all. If we fail to raise capital or enter into such agreements as, and when needed, we may have to significantly delay, scale back or discontinue the development and commercialization of gammaCore, or delay our pursuit of potential additional labeling claims.

We face a variety of challenges and risks, which we will need to address and manage as we pursue our strategy, including our ability to develop and retain an effective sales force, achieve market acceptance of gammaCore among physicians, patients and third-party payors, and expand the use of gammaCore to additional therapeutic indications.

Because of the numerous risks and uncertainties associated with our commercialization efforts, as well as research and clinical development activities, we are unable to predict the timing or amount of increased expenses, or when, if ever, we will be able to achieve or maintain profitability. Even if we are able to increase sales of gammaCore, we may not become profitable. If we fail to become profitable or are unable to sustain profitability, then we may be unable to continue our operations at planned levels and be forced to reduce or terminate our operations.

As of March 31, 2018, we had cash and cash equivalents, debt securities and other investments available for sale, of \$26.7 million. We believe that the anticipated net proceeds from this offering, together with our existing cash resources, will enable us to fund our operating expenses and capital expenditure requirements through at least June 2019. We have based these estimates on assumptions that may prove to be wrong, and we could exhaust our available capital resources sooner than we expect. See "— Liquidity and Capital Resources."

Statutory Corporate Conversion

We currently operate as a Delaware limited liability company, under the name Electrocore, LLC. Prior to the closing of this offering, Electrocore, LLC will convert into a Delaware corporation pursuant to a statutory conversion and change its name to electroCore, Inc. As a result of the corporate conversion, the holders of the different classes and series of units of Electrocore, LLC will become holders of common stock and options to purchase common stock of electroCore, Inc. Immediately prior to the corporate conversion, all outstanding Preferred Units will first convert into our Common Units on a one-for-one basis in accordance with the automatic conversion provision of our Operating Agreement and thereafter in connection with the corporate conversion our Common Units, other than Common Units issued as Profits Interests, will convert into shares of our common stock on a one share of common stock for every 18 Unit basis. Our Profits Interests will be converted into (i) shares of our common stock, and (ii) with respect to Profits Interests that are held by our current employees and consultants at the time of the corporate conversion, options to purchase our common stock. The number of shares of common stock and the number of options to be issued in respect of the Profits Interests will be determined based upon the appreciation in our value after the date of grant of the applicable Profits Interest through the completion of this offering. The exercise price of these options will be equal to our initial public offering price. Following the corporate conversion, the vesting provisions applicable to the Profits Interests as in effect prior to the corporate conversion will apply, in substantially the same manner, to the shares of common stock and options issued in respect of such Profits Interests in the corporate conversion. Other than warrants that expire in connection with the completion of this offering, holders of warrants to purchase units of ElectroCore, LLC will become holders of warrants to purchase common s

The purpose of the corporate conversion is to reorganize our corporate structure so that the entity that is offering our common stock to the public in this offering is a corporation rather than a limited liability company and so that our existing investors will own our common stock rather than equity interests in a limited liability company. For further information regarding the corporate conversion, see "Corporate Conversion." References in this prospectus to our capitalization and other matters pertaining to our equity prior to the corporate conversion relate to the capitalization and equity of Electrocore, LLC, and after the corporate conversion, to electroCore, Inc.

The consolidated financial statements included elsewhere in this prospectus are those of Electrocore, LLC and its subsidiaries and affiliate. We expect that our conversion from a Delaware limited liability company to a Delaware corporation will not have a material effect on our consolidated financial statements at the time of the corporate conversion.

Components of Our Results of Operations

Net Sales

We expect to generate the majority of our net sales from the United States. In April 2017, we received FDA clearance for gammaCore for the acute treatment of pain associated with episodic cluster headache. In July 2017, we began a product registry for episodic cluster headache in the United States and as a result generated our first U.S. revenue relative to this FDA clearance. Through this registry, we are seeking to establish a base of advocacy among key opinion leaders in the headache field and to generate patient demand through prescriptions submitted to the payors. Given our limited resources, we believe that choosing to enter the market with a targeted product registry that prioritized early development of advocacy and reimbursement best positions us for commercial launch in the United States in the third quarter of 2018. In January 2018, we received FDA clearance for gammaCore for the acute treatment of pain associated with migraine headaches. In July 2017, we implemented a co-payment assistance program whereby we assumed responsibility for a fixed amount of copayment for the patient. Costs for this program were immaterial for the year ended 2017. For the three months ended March 31, 2018 costs for this program are reflected as a reduction of the transaction price of units sold within our net sales.

In February 2018 we began a formal physician training program highlighting the clinical evidence and benefits of gammaCore for the acute treatment of pain associated with migraine and episodic cluster headache. Concurrently, to incentivize these physicians to issue prescriptions and increase market penetration, we began a voucher program providing new patients with a one-time 31-day therapy at no charge to the patient. While the voucher program has increased demand, the transaction price for each unit sold through the voucher program is reduced by the amount of the one-time free 31-day therapy which offsets the effects of the increased demand for gammaCore. Our revenue reflects only gammaCore units sold either for new patients, or existing patients refills, that are not related to our voucher program.

Prior to December 31, 2017, we generated the majority of our revenue from the European CE Mark approval for gammaCore that we obtained in 2011 for five different indications, including primary headache. This allowed us to commercialize gammaCore in the European Economic Area and other countries that recognize the European CE Mark. Following receipt of our CE marks in 2011 and prior to receipt of our FDA clearance in the United States, we limited our commercialization effort outside the United States to Germany and the United Kingdom. Revenue, however, was minimal primarily due to limited published pivotal clinical data to support reimbursement in these countries. Now that our pivotal trials (ACT 1, ACT 2 and PRESTO) have been completed, we are awaiting publication of the PRESTO data. These data are expected to be published prior to the end of 2018, along with the published ACT 1 and ACT 2 data, to the reimbursement authorities in Germany and the United Kingdom for review for reimbursement consideration. We intend to explore select international markets to commercialize our gammaCore therapy based on reimbursement outcomes and as our resources permit, using direct, dealer and distributor sales models as the targeted market best dictates.

We expect net sales of gammaCore to increase in the future as a result of new FDA clearances for indications for our therapy and as we expand our sales, marketing and distribution capabilities to support growth in the United States and in select markets internationally.

Cost of Goods Sold

Cost of goods sold consists primarily of direct material, direct labor and overhead costs. A significant portion of our cost of goods sold consists of overhead costs such as quality assurance, warehousing and shipment,

facilities, depreciation on equipment and operations supervision and management. Due to our relatively low production volumes compared to our available assembling capacity, a large portion of our costs for our gammaCore therapy consists of overhead expense. If our production volumes increase as expected in the future, we anticipate that our per unit production costs will decrease.

Gross Profit

We calculate gross profit as net sales less cost of goods sold. Our gross profit has been and will continue to be affected by a variety of factors, including production volumes, assembly costs, product reliability and the implementation of cost-reduction strategies over time. We expect our gross profit to increase over time as our production volume increases and as we spread the fixed portion of our assembly and production overhead costs over a larger number of units produced, thereby significantly reducing our per unit assembly costs. However, our gross profit as a percentage of net sales, or gross margin, will be impacted by numerous factors including commencement of sales of our next generation product gammaCore Sapphire in the United States, or any other future products, which may have higher product costs.

Research and Development

Our research and development expenses consist primarily of employee compensation, engineering, product development, tooling, proprietary data warehouse development and enhancements, quality assurance, clinical trial and regulatory expenses incurred in the development and FDA clearance of our gammaCore therapy. Research and development expenses also include consulting services, outside services and materials. We expense research and development costs as they are incurred.

Selling, General and Administrative

Our selling, general and administrative expenses consist primarily of personnel related costs (including compensation, benefits, and unit based compensation) for executive, finance, administrative and field based personnel, costs for commercial related infrastructure, and market development. In anticipation of clearance from the FDA and commencement of commercial sales in the United States, we incurred a significant increase in compensation costs as additional personnel were hired to oversee the execution of the commercial plan in the United States and Europe. Significant expenses include costs associated with marketing and advertising, salesforce, professional fees for legal services, including legal services associated with our efforts to obtain and maintain broad protection for the intellectual property related to our products, rent, compliance, payor reimbursement development, accounting services, and consulting fees.

We expect selling, general and administrative expenses to continue to grow as we seek to execute our commercial and research and development plans. We also expect other non-employee-related costs, including outside services and accounting and legal costs to increase. The timing of these increased expenditures and their magnitude are primarily dependent on the commercial success and sales growth of gammaCore and gammaCore Sapphire. In addition, we expect to incur increased selling, general and administrative expenses in connection with being a public company, which may further increase when we are no longer able to rely on certain "emerging growth company" exemptions we are afforded under the JOBS Act.

Amortization of Debt Issuance Costs

Amortization of debt issuance costs consist primarily of the amortization of costs, including cash, warrants and common units issued to advisors and bankers, in conjunction with our issuance of Bridge Notes. These items were recorded as a discount on the Bridge Notes and amortized on a straight line basis over the term of the Bridge Notes until their conversion to Series B Preferred Units in August 2017.

Net Loss on Settlement of Bridge Notes

The loss on settlement of debt is attributable to the conversion of the Bridge Notes into Series B Preferred Units in August 2017 (see Note 12 to the audited consolidated financial statements included elsewhere in this prospectus).

Interest Expense

Interest expense consists of interest on our term loans and Bridge Notes. Interest includes both the stated fixed rate of interest on the term loans and Bridge Notes, as well as the amortization of debt discount over the term of the Bridge Notes. The debt discount relates to the warrants, embedded derivative, and Common Units issued in conjunction with our Bridge Notes.

Net Income (Loss) Attributable to Non-Controlling Interest

From our inception through March 31, 2018, we consolidated the financial results of our affiliate, electroCore (Aust) Pty Limited. Although we did not have a controlling ownership interest in electroCore (Aust) Pty Limited during that period, we determined that electroCore (Aust) Pty Limited was a variable interest entity, of which we were the primary beneficiary.

Results of Operations

Three months ended March 31, 2018 compared to three months ended March 31, 2017

The following table sets forth amounts from our consolidated statements of operations for the three months ended March 31, 2018 and 2017.

		Three months	ended Ma	arch 31,
		2018	1.	2017
Consolidated statements of operations:		(in the	ousands)	
Net sales	\$	81.2	\$	116.9
Cost of goods sold	ψ	48.9	Ф	72.7
			_	
Gross profit		32.2		44.2
Operating expenses				
Research and development		2,306.3		1,726.6
Selling, general and administrative		6,824.8		3,059.3
Total operating expenses		9,131.1		4,785.8
Loss from operations		(9,098.9)		(4,741.6)
Interest expense		_		1,040.1
Amortization of debt issuance costs		_		269.2
Change in fair value of warrant liability		245.9		178.0
Change in fair value of derivative instrument related to convertible bridge notes		_		128.1
Interest and other income, net		(109.3)		_
Other		208.1		_
Net loss		(9,443.5)		(6,356.9)
Less: Net income attributable to noncontrolling interest		55.0		
Net loss attributable to Electrocore, LLC, subsidiaries and affiliate	\$	(9,498.5)	\$	(6,356.9)

Net Sales

Net sales decreased \$35.7 thousand to \$81.2 thousand for three months ended March 31, 2018, from \$116.9 thousand for the three months ended March 31, 2017. The decrease is primarily due to a reduction in the transaction price related to the cost of voucher program and the co-payment assistance program. Net sales are not recognized for gammaCore units redeemed, or estimated to be redeemed under the Company's voucher program.

Costs of Goods Sold

Cost of goods sold decreased \$23.8 thousand to \$48.9 thousand for three months ended March 31, 2018, from \$72.7 thousand for the three months ended March 31, 2017. The decrease is a result of units dispensed under the voucher program. Units estimated to be dispensed under the voucher program are recognized in selling, general, and administrative expenses, which costs are not recognized in cost of goods sold.

Gross Profit

Gross profit decreased \$12.0 thousand to \$32.2 thousand for three months ended March 31, 2018, from \$44.2 thousand for the three months ended March 31, 2017. This decrease reflects the impact of additional units sold offset by the costs of the voucher and co-payment program, which were subtracted from costs of goods sold for the period.

Research and Development

Research and development expenses increased \$0.6 million to \$2.3 million for three months ended March 31, 2018, from \$1.7 million for the three months ended March 31, 2017. This increase was primarily the result of an increase in headcount and increased compensation expenses related to personnel of \$563.0 thousand, an increase in research studies of \$200.0 thousand, which was offset by a decrease in other related expenses. We plan to increase our research and development expenses in 2018 to support product development, product enhancements and future clinical studies, to further develop and update our existing technologies and to expand our gammaCore therapy for the treatment of other indications, including additional headache conditions and rheumatology.

Selling, General and Administrative

Selling, general and administrative expense increased \$3.7 million to \$6.8 million for three months ended March 31, 2018, from \$3.1 million for the three months ended March 31, 2017. This increase is primarily a result of increased costs of \$1.1 million related to newly hired personnel, increased consulting expense of \$1.1 million, increased professional fees of \$0.5 million, increased training costs of \$0.4 million, increased third party valuation costs of \$0.1 million and an increase in other related expenses.

Interest Expense

Interest expense for the three months ended March 31, 2017 was \$1.0 million, which is primarily due to interest incurred on the outstanding Bridge Notes as well as amortization of the debt discount. There was no interest expense for the three months ended March 31, 2018 as a result of the conversion of the Bridge Notes into Series B Preferred Units in August 2017.

Amortization of Debt Issuance Costs

Amortization of debt issuance costs, which relate to the Bridge Notes issued during 2017 and 2016, was \$269.2 thousand for three months ended March 31, 2017. There was no amortization of debt issuance costs for the three months ended March 31, 2018 as a result of the conversion of the Bridge Notes into Series B Preferred Units in August 2017. The debt issuance costs were amortized on a straight-line basis over the term of the Bridge Notes.

Change in Fair Value of Warrant Liability and Derivative Instrument related to Convertible Bridge Notes

The change in fair value of the warrant liability is based on revaluation of the warrants during the three months ended March 31, 2018. The effect of the revaluation of the warrant liability for the three months ended March 31, 2018 was a change of \$245.9 thousand compared to a change of \$178.0 thousand for the three months ended March 31, 2017. The effect of the revaluation of the derivative instrument was \$128.1 thousand for the three months ended March 31, 2017. There was no liability associated with the derivative instrument as of March 31, 2018 as a result of the conversion of the related Bridge Notes into Series B Preferred Units in August 2017.

Interest and Other Income, Net

Interest and other income, net was \$109.3 thousand for the three months ended March 31, 2018, which resulted from return on our debt securities and other investments available for sale. We had no debt securities or other investments available for sale as of March 31, 2017 and, as a result, there was no interest and other income, net for the three months ended March 31, 2017.

Other

Other expense includes, among other expenses, our best estimate of the costs expected to be incurred in connection with a lawsuit brought by a financial advisor seeking additional compensation in connection with our Series B Preferred Unit financing.

Net Income Attributable to Non-Controlling Interest

Net income attributable to non-controlling interest increased to \$55.0 thousand for the three months ended March 31, 2018, from \$0 for the three months ended March 31, 2017. This increase is due to increased income related to our joint venture entity in Australia.

Net Loss Attributable to Electrocore, LLC, subsidiaries and affiliate

Net loss attributable to Electrocore, LLC, subsidiaries and affiliate increased by \$3.1 million to \$9.5 million for the three months ended March 31, 2018, from \$6.4 million for the three months ended March 31, 2017. The increase is primarily due to the items described above.

Year ended December 31, 2017 compared to year ended December 31, 2016

The following table sets forth amounts from our consolidated statements of operations for the years ended December 31, 2017 and 2016.

		ears ended		
		2017 (in tho		2016
Consolidated statements of operations:		Ì	ĺ	
Net sales	\$	811.5	\$	254.1
Cost of goods sold		518.6		123.7
Gross profit		292.9		130.4
Operating expenses				
Research and development		7,830.9		7,971.3
Selling, general and administrative	18	8,106.6		7,169.3
Total operating expenses	2	5,937.5	1	5,140.6
Loss from operations	(2	5,644.6)	(1	5,010.2)
Interest expense		6,295.9		234.4
Net loss on settlement of convertible bridge notes		3,868.8		
Amortization of debt issuance costs		827.3		536.9
Interest and other income, net		(99.0)		_
Change in fair value of warrant liability		(861.8)		_
Change in fair value of derivative instrument related to convertible bridge notes		348.2		_
Other		4.9		
Net loss	(30	6,028.9)	(1	5,781.5)
Less: Net loss attributable to noncontrolling interest		(236.4)		(44.1)
Net loss attributable to Electrocore, LLC, subsidiaries and affiliate	\$(3	5,792.5)	\$(1	5,737.4)

Net Sales

Net sales increased \$0.5 million to \$0.8 million for the year ended December 31, 2017, from \$0.3 million for the year ended December 31, 2016. This increase was primarily due to increased sales resulting from the establishment of our gammaCore product registry in the United States, as well as increased sales in Europe.

Costs of Goods Sold

Cost of goods sold increased \$0.4 million to \$0.5 million for the year ended December 31, 2017, from \$0.1 million for the year ended December 31, 2016. This increase was due to an increase in the number of gammaCore units sold, and increased direct labor and overhead costs per unit as a result of additional staff required to assemble more units.

Gross Profit

Gross profit increased \$0.2 million to \$0.3 million for the year ended December 31, 2017 from \$0.1 million for the year ended December 31, 2016. This increase was due to an increase in the number of gammaCore units sold, offset slightly by an increase of assembly cost per unit.

Research and Development

Research and development expenses decreased \$0.2 million to \$7.8 million for the year ended December 31, 2017 from \$8.0 million for the year ended December 31, 2016. The decrease was the result of an increase of

expenses related to the proprietary data warehouse development costs and associated software for gammaCore data collection of \$1.2 million, offset by decreases in costs of manufacturing of \$0.9 million, and other related costs of \$0.5 million.

Selling, General and Administrative

Selling, general and administrative expense increased by \$10.9 million to \$18.1 million for the year ended December 31, 2017 from \$7.2 million for the year ended December 31, 2016. This increase is primarily a result of increased personnel costs of \$1.4 million related to newly hired personnel, increased legal and compliance costs of \$0.6 million, increased costs of market preparation, medical education, materials, samples, studies and travel of \$3.6 million, and increased costs of \$4.2 million related to consultants and service providers associated with the anticipated commercial launch of gammaCore and gammaCore Sapphire.

Interest Expense

Interest expense increased by \$6.1 million to \$6.3 million for the year ended December 31, 2017 from \$0.2 million for the year ended December 31, 2016. This increase is primarily due to the issuance of additional Bridge Notes in 2017 of \$19.9 million and the related amortization of debt discount as well as interest incurred on the Bridge Notes. The Bridge Notes and any related accrued interest were converted to Series B Preferred Units in August 2017.

Net Loss on Settlement of Convertible Bridge Notes

Upon the conversion of the Bridge Notes into Series B Preferred Units, we incurred a loss on the settlement of \$3.9 million in the year ended December 31, 2017. This loss was calculated as the difference between the Series B Preferred Units issued (and the related warrants and Common Units issued in conjunction with the Bridge Financing), and the carrying value of the settled Bridge Notes (which includes the related debt discount and discount for debt issuance costs), accrued interest, and the embedded derivative liability. There was no net loss on settlement for the year ended December 31, 2016 since all Bridge Notes were converted in August 2017.

Amortization of Debt Issuance Costs

Amortization of debt issuance costs, which relate to the Bridge Notes issued during 2017 and 2016, increased by \$0.3 million to \$0.8 million for the year ended December 31, 2017 from \$0.5 million for the year ended December 31, 2016. These debt issuance costs were amortized on a straight-line basis over the term of the Bridge Notes that we issued in fiscal years 2017 and 2016. This increase was driven by the additional Bridge Notes that were issued in 2017 and the full amortization of the remaining debt issuance costs as a result of the conversion of the debt to Series B Preferred Units in August 2017.

Change in Fair Value of Warrant Liability and Derivative Instrument related to Convertible Bridge Notes

The change in fair value of the warrant liability and derivative instrument is based on revaluation of those instruments occurring during the year ended December 31, 2017. Revaluation of the warrant liability and the liability associated with the derivative instrument was immaterial during the year ended December 31, 2016.

Net Loss Attributable to Non-Controlling Interest

Net loss attributable to non-controlling interest increased by \$192.3 thousand to \$236.4 thousand for the year ended December 31, 2017 from \$44.1 thousand for the year ended December 31, 2016. The increase is due to losses related to our joint venture entity in Australia.

Net Loss Attributable to Electrocore, LLC, subsidiaries and affiliate

Net loss attributable to Electrocore, LLC, subsidiaries and affiliate increased by \$20.1 million to \$35.8 million for the year ended December 31, 2017 from \$15.7 million for the year ended December 31, 2016. The increase is primarily due to the items described above.

Liquidity and Capital Resources

We have financed our operations to date primarily through the sale of our equity securities, including the issuance of equity securities upon the conversion of our convertible promissory notes, term loan and exercise of warrants. Historically, cash outflows have primarily been associated with cash used for operating activities such as the expansion and support of our sales and marketing infrastructure, increased research and development activities, and other working capital needs. As of March 31, 2018, we had cash and cash equivalents of \$1.5 million, and debt securities and other investments available for sale of \$25.2 million, and as of December 31, 2017 we had cash and cash equivalents of \$13.2 million, and marketable securities of \$24.0 million. Cash in excess of immediate requirements is invested with a view to liquidity and capital preservation. Currently, our cash and cash equivalents, and debt securities and other investments available for sale, are held in cash, money market bank accounts and treasury notes, all of which have original maturities of less than 90 days.

Until we can generate a sufficient amount of cash from operations, we expect to finance future cash needs through public or private equity or debt offerings. Additional capital may not be available on reasonable terms, if at all. If we are unable to raise additional capital in sufficient amounts or on terms acceptable to us, we may have to significantly scale back our operations or delay, scale back or discontinue the continuing development of gammaCore. If we raise additional funds through the issuance of additional debt or equity securities, it could result in dilution to our existing unitholders and increased fixed payment obligations, and these securities may have rights senior to those of our common units. If we incur indebtedness, we could become subject to covenants that would restrict our operations, such as limitations on our ability to incur additional debt, limitations on our ability to acquire, sell or license intellectual property rights and other operating restrictions that could adversely impact our ability to conduct our business. Any of these events could significantly harm our business, financial condition and prospects.

Cash Flows

The following table sets forth the significant sources and uses of cash for the periods noted below:

	Three months ended March 31,			
	 2018		2017	
	 (unaudited	; in millions)		
Net cash (used in) provided by				
Operating activities	\$ (9.7)	\$	(4.3)	
Investing activities	(1.4)		_	
Financing activities	(0.5)		4.2	

Operating Activities

Net cash used in operating activities was \$9.7 million for the three months ended March 31, 2018, compared to \$4.3 million for the three months ended March 31, 2017. This increase in net cash used in operating activities of \$5.4 million was associated with net changes in working capital and an increase in net loss of \$3.1 million, which was the result of our increase in expenditures for selling, general and administrative items, including those related to our co-payment and voucher program.

Investing Activities

Net cash used in investing activities was \$1.4 million for the three months ended March 31, 2018 compared to \$0 for the three months ended March 31, 2017 and reflects the net investment activity of \$1.3 million and the purchase of additional property and equipment of \$0.1 million.

Financing Activities

Net cash used in financing activities was \$0.5 million for the three months ended March 31, 2018, which was a decrease of \$4.7 million from net cash provided by financing activities of \$4.2 million for the three months ended March 31, 2017. This decrease was primarily the result of no financing activities during the first quarter of 2018, as well as the deferral of costs incurred for expected future financing.

The following table sets forth the significant sources and uses of cash for the periods noted below:

		Years ended December 31,		
	_	2017		2016
		(in m	illions)	
Net cash (used in) provided by				
Operating activities	\$	(25.3)	\$	(13.2)
Investing activities		(24.1)		_
Financing activities		62.5		9.3

Operating Activities

Net cash used in operating activities was \$25.3 million for the year ended December 31, 2017, compared to \$13.2 million for the year ended December 31, 2016. This increase in net cash used in operating activities of \$12.1 million was associated with net changes in working capital and an increase in net loss of \$20.2 million, which was the result of our increase in expenditures for selling, general and administrative items. The changes in working capital reflect the increased inventory associated with our product registry and the anticipated launch of gammaCore as well as net changes associated with the timing of payments. Offsetting uses were non-cash items including the amortization of debt discount and issuance costs of \$6.1 million related to the Bridge Notes and the loss on the settlement of Bridge Notes of \$3.9 million.

Investing Activities

Net cash used in investing activities was \$24.1 million for the year ended December 31, 2017 compared to \$0 for the year ended December 31, 2016, and reflects the utilization of cash proceeds from issuance of the Bridge Notes and the sale of the Series B Preferred Units for the purchase of marketable securities.

Financing Activities

Net cash provided by financing activities was \$62.5 million for the year ended December 31, 2017 and \$9.3 million for the year ended December 31, 2016, an increase of \$53.2 million. This increase was primarily the result of the receipt of \$19.9 million in net cash proceeds from the issuance of the Bridge Notes as well as \$44.5 million in net cash proceeds from the issuance of the Series B Preferred Units.

Capital Resources

As of March 31, 2018, we had cash and cash equivalents of \$1.5 million, and debt securities and other investments available for sale of \$25.2 million. We believe that the anticipated net proceeds from this offering, together with our existing cash resources, will enable us to fund our operating expenses and capital expenditure requirements through at least June 2019. We have based these estimates on assumptions that may prove to be wrong, and we could exhaust our available capital resources sooner than we expect.

Series A Preferred Units

From March 28, 2013 through September 2016, we received net proceeds of \$50.7 million from the sale of Series A Preferred Units at an initial closing and several required milestone closings, several optional milestone closings, as well as from the conversion of certain loan amounts and the exercise of certain related warrants, net of related issuance costs. Investors in the Series A Preferred Unit financings directly or indirectly included the following related parties of ours: Core Ventures II, LLC, or CV II, an entity that holds more than 5% of our outstanding units and in which Joseph P. Errico and Dr. Thomas J. Errico, two of our directors, have a pecuniary interest and for which they serve as managers with voting control; Peter S. Staats, M.D., our Chief Medical Officer and a former director, and Nicholas Colucci, a director, and Kathryn Theofilos, a former director of our company and currently an owner of more than 5% of our outstanding units, invested through CV II; Merck Global Health Innovation Fund, LLC, or GHI, an entity for which one of our directors, David M. Rubin, serves as a Managing Director, and which owns greater than 5% of our outstanding units; and James L.L. Tullis, and the Tullis Opportunity Fund II, or TOP II, an entity in which Mr. Tullis, one of our directors, has a pecuniary interest and for which he serves as the managing partner of its general partner.

Term Loans

On December 22, 2015, Pacific Western Bank loaned us \$1.25 million pursuant to a Loan and Security Agreement, which also provided for three additional term loans aggregating \$6.25 million, available at various dates through June 2017. In connection with this loan, we issued 66,177 warrants to Pacific Western Bank to purchase our Series A Preferred Units at an exercise price of \$0.85 per Unit. The warrants expire on December 22, 2025. In May 2016, the Company repaid the \$1.25 million term loan balance in full and the Loan and Security Agreement was terminated.

On December 22, 2015, CV II also loaned us \$1.25 million pursuant to a Loan and Security Agreement. In connection with this loan, we issued 66,177 warrants to CV II expiring on December 22, 2025 to purchase our Series A Preferred Units at an exercise price of \$0.85 per unit. Pursuant to the terms of this loan, CV II elected to convert the loan of \$1.25 million and related accrued interest of \$49.9 thousand into approximately 1.5 million Series A Preferred Units in two installments in March 2016 and September 2016 at a price per unit of \$0.85.

Bridge Note Financing

From September 2016 through June 2017, we issued an aggregate of \$25.6 million of Bridge Notes to existing and new investors. The Bridge Notes accrued interest at an annual interest rate of 10% and had a maturity date one year from the date of issuance. Each Bridge Note was originally convertible into the equity securities issued in a subsequent equity financing that raised not less than \$8.0 million, or a Qualified Equity Financing, at a 10% discount to the price of the equity securities issuable in the Qualified Equity Financing. The Bridge Notes were also convertible, at the option of the investors into Series A Preferred Units at \$0.85 per Unit.

Each purchaser of a Bridge Note also received warrant coverage of 20% of the principal amount of its Bridge Note. The Bridge Note warrants are exercisable from the date of the issuance of the Qualified Equity Financing until June 29, 2021 and entitle each holder to purchase an amount of securities issued in the Qualified Equity Financing equal to 20% of principal amount of the Bridge Notes purchased by each such investor divided by the price of the Qualified Equity Financing. The exercise price is equal to the Qualified Equity Financing price. Upon the closing of our Series B Preferred Unit financing in August 2017, the outstanding Bridge Note warrants became exercisable for 7.7 million Series B Preferred Units with an exercise price of \$0.70 per unit.

In September 2016 the terms of the Bridge Note Financing were amended to provide that, in addition to a Bridge Note and warrant, future bridge investors, depending on the purchaser and amount invested, would receive up to two common units for each dollar of principal amount of Bridge Note purchased.

From December 2016 to June 2017, as compensation for placing Bridge Notes with investors in the principal amount of \$12.3 million, our placement agents received cash of \$1.2 million, 5.4 million common units,

and 1.6 million warrants to purchase Series B Preferred Units at an exercise price of \$0.70 per unit. Investors in the Bridge Notes financing included related parties as described in "Certain Relationships and Related Party Transactions."

Series B Preferred Units

In 2017, we issued and sold at a price of \$0.70 per unit, in serial closings, \$73.6 million of our Series B Preferred Units, inclusive of the automatic conversion of \$25.6 million of our Bridge Notes plus \$1.1 million of accrued and unpaid interest thereon. In connection with such closings, we issued to investors in such closings warrants for the purchase of 35.5 million Common Units at an exercise price of \$1.25 per Common Unit. In connection therewith, we also issued to our financial advisors warrants for the purchase of 2.7 million Common Units at an exercise price of \$0.70 per Common Unit, and warrants for the purchase of 0.3 million Series B Preferred Units at an exercise price of \$0.70 per Series B Preferred Unit. Investors in the Series B Preferred Unit financings included related parties as described in "Certain Relationships and Related Party Transactions."

Contractual Obligations

In the normal course of business, we enter into obligations and commitments that require future contractual payments. The commitments result primarily from lease for office space and leased equipment. The following table summarizes our contractual obligations and commercial commitments as of December 31, 2017:

	Less than 1 year	1 to 3 years 3 to 5 years	More than 5 years	Total
Lease Rental Payments	\$ 552,524	\$1,687,764 \$195,437	\$ —	\$2,435,725

The table above reflects only payment obligations that are fixed and determinable based on our current agreements. Our operating lease commitment relates to the facility leased for our corporate headquarters in Basking Ridge, New Jersey.

Off-Balance Sheet Arrangements

We did not have during the periods presented, and we do not have any off-balance sheet arrangements, as defined in the rules and regulations of the SEC.

Internal Control Over Financial Reporting

In connection with the audit of our consolidated financial statements for the years ended December 31, 2017 and 2016, we identified a material weakness in our internal control over financial reporting related to the accounting for complex transactions. For additional information, see the "Risk Factors — Risks Related to Our Common Stock and This Offering — We have identified a material weakness in our internal control over financial reporting. If we are unable to remediate this material weakness, or if we experience additional material weaknesses in the future, we may not be able to accurately or timely report our financial condition or results of operations and investors may lose confidence in our financial reports and the market price of our common stock could be adversely affected."

Quantitative and Qualitative Disclosures About Market Risk

We develop our products in the United States and sell those products into more than four countries. As a result, our financial results could be affected by factors such as changes in foreign currency exchange rates or weak economic conditions in foreign markets. Most of our sales in Europe are denominated in the U.S. dollar and Euro. As our sales in currencies other than the U.S. dollar increase, our exposure to foreign currency fluctuations may increase. In addition, changes in exchange rates also may affect the end-user prices of our products compared to those of our foreign competitors, who may be selling their products based on local currency pricing. These factors may make our products less competitive in some countries.

If the U.S. dollar uniformly increased or decreased in strength by 10% relative to the currencies in which our sales were denominated, our net income would have correspondingly increased or decreased by an immaterial amount for the three months ended March 31, 2018.

Our exposure to market interest rate risk is confined to our cash and cash equivalents and debt securities and other investments available for sale. As of March 31, 2018, we had cash and cash equivalents of \$1.5 million, and debt securities and other investments available for sale of \$25.2 million. The goals of our investment policy are preservation of capital, fulfillment of liquidity needs and fiduciary control of cash and investments. We also seek to maximize income from our investments without assuming significant risk. To achieve our goals, we may maintain a portfolio of cash equivalents and investments in a variety of securities of high credit quality. The securities in our investment portfolio, if any, are not leveraged, are classified as either available for sale or held-to-maturity and are, due to their very short-term nature, subject to minimal interest rate risk. We currently do not hedge interest rate exposure. Because of the short-term maturities of our cash equivalents, we do not believe that an increase in market rates would have any material negative impact on interest income recognized in our statement of operations. We have no investments denominated in foreign currencies and therefore our investments are not subject to foreign currency exchange risk.

All of the potential changes noted above are based on sensitivity analyses performed on our financial position as of March 31, 2018.

Critical Accounting Policies and Estimates

The preparation of our financial statements are in accordance with GAAP. We are required to make estimates and assumptions that affect the reported amounts of assets and liabilities as of the date of the consolidated financial statements, the reported amounts of net sales and expenses during the reporting periods and the related disclosures in the consolidated financial statements. We believe that the following accounting policies described in Note 2: "Summary of Significant Accounting Policies" in the audited consolidated financial statements included elsewhere in this prospectus, are critical because they involve a higher degree of judgment and uncertainty. As a result, these accounting policies could materially affect our financial statements.

On an ongoing basis, we evaluate these estimates and judgments based on historical experiences and various other factors that are believed to reflect the current circumstances. While we believe our estimates, assumptions and judgments are reasonable, they are based on information presently available. Actual results may differ significantly from these estimates due to changes in judgments, assumptions and conditions as a result of unforeseen events or otherwise, which could have a material impact on our financial position and results of operations.

Revenue Recognition

We operate in one reportable segment and all of our net sales are derived from sales of our gammaCore product, net of specialty pharmaceutical distribution discounts. Products are sold to a specialty pharmaceutical distributor on a per unit wholesale acquisition cost basis. We recognize revenue upon transferring product to our customer FOB destination. Transfer of control is deemed to occur when we have transferred physical possession of the product FOB destination, the customer has accepted the product and has legal title and significant risks and rewards of ownership, and we have present right to payment.

In the audited consolidated statements of operations for the years ended December 31, 2017 and 2016, revenue is presented under ASC Topic 605, *Revenue Recognition*. Under this basis, revenue is recognized when the following criteria are met: persuasive evidence of an arrangement exists, the customer assumes ownership and risk of loss, the sales price is fixed or determinable, and collection is reasonably assured. Accordingly, the Company recognized revenue when the delivery of the product was completed.

Effective January 1, 2018, we adopted ASC Topic 606, *Revenue from Contracts with Customers*. Under this basis, revenue is recognized when an entity transfers control of promised goods to a customer in an amount that reflects the consideration the entity is entitled to receive in exchange for those goods. Indicators that control has transferred include (1) the Company has a present right to payment for the product, (2) the Company has transferred the physical possession of the product, (3) the customer has legal title to the product, (4) the customer has significant risks and rewards of ownership and (5) the customer has accepted the product. The Company determined that, like under ASC 605, revenue is recognized when the delivery of the product is completed.

We adopted ASC 606 using the full retrospective method. The adoption did not result in material impacts to our historical financial statements and no adjustments were made to present the unaudited consolidated financial statements for the three months ended March 31, 2017.

Under ASC 606 the vouchers issued under our voucher program, which began in February 2018 represent consideration payable to our specialty pharmaceutical distributor's customer, the specialty pharmacy. This voucher program, provides new patients with a one time, 31 days of therapy at no charge. As a result, vouchers are accounted for as a reduction in transaction price. Accordingly, the Company excludes from revenue the number of vouchers redeemed in the period and estimates of the number of vouchers to be redeemed. The corresponding costs associated with the vouchers are recorded as promotional expenses within selling, general and administrative expenses. Variable consideration estimates were made using the expected value amount method, which is appropriate when there are limited outcomes of variable consideration. In this case, vouchers are either redeemed, or they are not redeemed. For the three months ended March 31, 2018, \$169.7 thousand of vouchers were redeemed and \$124.7 thousand of vouchers were estimated to be redeemed in a subsequent period.

Similarly, our co-payment reimbursement program, which was implemented in July 2017, is also considered variable consideration and each co-payment reimbursement made was accounted for as a reduction in the transaction price, which impacted our net sales for the three months ended March 31, 2018 by \$29.0 thousand. The reductions in revenue/costs of these programs are accounted for a promotional items and are included in our selling, general and administrative expenses. The co-payment reimbursement program costs for the year ended December 31, 2017 were immaterial.

At the current time, we do not provide an allowance for returns. Therapy delivered from our gammaCore products and subsequent refills are sold in 31-day increments to our specialty pharmaceutical distributor. Once activated, our products stop delivering therapy after 31 days, at which time the patient discards the product, in the case of gammaCore, and can receive a refill prescription for a new 31-day gammaCore product. In the case of the gammaCore Sapphire, which will begin commercial sales in mid-2018, patients with a prescription refill can receive the next 31 days of therapy via our refill RFID card.

We expense the cost, as incurred, of product damaged as a result of shipping to our specialty pharmaceutical distributors. This expense, historically, has been immaterial. We expect to receive payment on all of our customer receivables within one year and therefore classify all receivables as current assets.

Accounts receivable are net of an allowance for doubtful accounts, which are accounts from which payment is not expected to be received although product was provided and revenue was earned. Receivables are written off when deemed uncollectible. Recoveries of receivables previously written off are recorded when received. To date, we have not provided an allowance for doubtful accounts, based on historical experience.

Inventories

We value inventory at the lower of cost or net realizable value. Cost is determined on a first in first out basis. This policy requires us to make estimates regarding the net realizable value of our inventory, including an assessment of excess or obsolete inventory. We evaluate inventory for excess quantities and obsolescence based

on an estimate of the future demand for our product within a specified timeframe, and record an allowance to reduce the carrying value of inventory as determined necessary. The estimates we use for demand are also used for near-term capacity planning and inventory purchasing and are consistent with our revenue forecasts. If our actual demand is less than our forecast demand, we may be required to take additional excess inventory charges, which would decrease gross margin and adversely impact net operating results in the future.

Income Taxes

Currently, we are a limited liability company and therefore tax attributes are passed through to our members. Prior to the closing of this offering, we will convert to a Delaware corporation. We will be taxed at the rates applicable within each jurisdiction in which we will operate and/or generate revenue. The composite income tax rate, tax provisions, deferred tax assets and deferred tax liabilities will vary according to the jurisdiction in which profits arise. Tax laws are complex and subject to different interpretations by management and the respective governmental taxing authorities, and require us to exercise judgment in determining our income tax provision, our deferred tax assets and liabilities and the valuation allowance recorded against our net deferred tax assets.

Research and Development Expenses

We incur significant expenditures on research and development costs, including clinical testing for regulatory purposes and these expenses have been expensed as incurred. Our research and development expenses primarily consist of pilot and pivotal clinical trials relative to current and future therapeutic indications, product engineering, technical updates, quality assurance and regulatory expenses. Additionally, these expenses are comprised of development and enhancements to our proprietary data warehouse, which maintains patient product serial numbers and interacts in real time, with a device placed at the specialty pharmacy to program RFID refill cards. Research and development expenses also include employee unit-based compensation, consulting services, outside services, materials, and supplies relating to clinical trials including products revisions, data statistics and patient recruitment.

Unit-Based Compensation

We record compensation costs related to our unit-based awards, which currently include Common Units issued as Profits Interests, based on the fair value of such awards. Compensation expense is recognized over the vesting period during which an employee is required to provide services in exchange for the award. All unit-based awards are expensed on a straight-line basis over the vesting period, which is generally four years.

Measurement of unit-based payment transactions with non-employees is based on the fair value of whichever is more reliably measurable: (a) the goods or services received; or (b) the equity instruments issued. The fair value of the unit-based payment transaction is determined at the earlier of performance commitment date or performance completion date.

The estimation of the fair value of each profits unit grant or issuance on the date of grant involves numerous assumptions by management. Although we calculate the fair value under the Black-Scholes option pricing model, which is a standard option pricing model, this model still requires the use of numerous assumptions, including, among others, the expected life (turnover), volatility of the underlying equity security, a risk free interest rate and expected dividends. We do not have publicly traded equity and have a limited operating history and a lack of company-specific historical and implied volatility data, and therefore we have estimated stock price volatility based upon an index of the historical volatilities of a group of publicly-traded industry peer companies. We have estimated the expected term of our Common Units issued as Profits Interest using the "simplified" method, whereby the expected life equals the average of the vesting term and the original contractual term of the option. The use of different values by management in connection with these assumptions in the Black-Scholes option pricing model could produce substantially different results.

Determination of the Fair Value of Common Units

As there has been no public market for our common units to date, the estimated fair value of our common units has been supported by third-party valuations with input of a combination of objective and subjective factors that management believe are relevant. Our third-party valuations resulted in valuations of our Common Units of \$0.14 per unit as of March 31, 2017, \$0.21 per unit as of June 30, 2017, \$0.35 per unit as of September 30, 2017, \$0.69 per unit as of December 31, 2017 and \$0.77 per unit as of March 31, 2018. These third-party valuations were performed in accordance with the guidance outlined in the AICPA's Accounting and Valuation Guide, *Valuation of Privately-Held-Company Equity Securities Issued as Compensation*.

Our third-party valuation of common units was prepared using the discounted cash flow, or DCF, method, a form of the income approach, to estimate our equity value. In order to estimate equity value, the DCF method uses the estimated present value of future net cash flows for the expected life of the related assets or business, discounted at a rate of return that considers the relative risk of achieving those cash flows, the time value of money and the current stage of development of the business. The total fair value of equity on a marketable basis was then allocated between each class of equity, including common units, preferred units, Profits Interests, and warrants, applying a hybrid method of allocation. Under the hybrid method, a probability-weighted expected return method and an option pricing model were utilized.

The assumptions underlying these valuations represent management's best estimates, which involve inherent uncertainties and the application of management judgment. As a result, if factors or expected outcomes change and we use significantly different assumptions or estimates, our share-based compensation expense could be materially different.

Following the closing of this offering, the fair value of our common shares will be determined based on the quoted market price of our common shares.

Profits Interests Granted

The following table summarizes by grant period the number of Profits Interests units granted by us during 2017 and the three months ended March 31, 2018 as well as the estimated fair value of such grants as of the grant date:

Three months ended	Number of units	per ı	Fair value underlying unit date of grant
March 31, 2017	1,022,500		0.020 - 0.082
June 30, 2017	1,820,000	\$	0.020
September 30, 2017	11,170,335	\$ (0.014 - 0.500
December 31, 2017	7,193,754	\$	0.029
March 31, 2018	19,112,218	\$ (0.020 - 0.140

Bridge Notes and Warrants

The Bridge Notes, common units and warrants to purchase securities in the Qualified Equity Financing (except that, for issuances prior to September 9, 2016, no Common Units were issued in respect thereof) were issued to investors simultaneously in exchange for cash equal to the principal amount of the Bridge Notes. In addition, the Bridge Notes were issued with an embedded automatic conversion feature in which outstanding Bridge Notes are converted to Series B Preferred Units upon occurrence of the Qualified Equity Financing. Each of these separate financial instruments and embedded features require separate accounting.

The proceeds of the bridge financing transactions were required to be allocated to each of the Bridge Notes, Common Units, and warrants. In addition, the embedded option to convert to Series A Preferred Units and the automatic conversion feature to Series B Preferred Units were determined to be embedded derivatives that require bifurcation from the Bridge Notes and separate accounting.

The warrants were evaluated by management and determined to be liability classified. As such, the warrants are measured at fair value with changes in fair value recognized in net income. After subtracting the fair value of the warrants at issuance, the remaining proceeds were allocated to the Bridge Notes (inclusive of the embedded automatic conversion feature) and common units at their relative fair values. The embedded option to convert to Series A Preferred Units and the automatic conversion feature to Series B Preferred Units was then separated from the Bridge Notes and measured at fair value with changes in fair value recognized in net income. The residual amount of proceeds were then allocated to the Bridge Notes.

As a consequence of the allocation of proceeds of the bridge financing to the financial instruments and embedded derivative described above, the Bridge Notes were issued at a discount. This discount has been amortized over the life of the Bridge Notes.

Valuation of Bridge Notes

In order to allocate proceeds of the bridge financing transactions, a determination of the fair value of the common unit, warrant and conversion features of the Bridge Notes was required. We used an alternative discounted cash flow method to value the Bridge Notes. More specifically, we determined the fair value of the straight convertible debt component by discounting principal and interest payments back to the present value at a 45% required rate of return over a dollar-weighted average term of 0.84 years as of December 31, 2016 and as of June 30, 2017 we used a 45% required rate of return over a dollar-weighted average term of 0.17 years. As of December 31, 2016 and June 30, 2017, we determined the fair value of the embedded value of the option's ability to convert at a 10% discount into the next Qualified Equity Financing. For June 30, 2017, this was done by discounting the difference between the aggregate Bridge Note principal plus interest at a 10% discount for lack of marketability times a 95% probability of a Qualified Equity Financing closing prior to the maturity date of the Bridge Note. For December 31, 2016, this was done by discounting the difference between the aggregate Bridge Note principal plus interest at a 10% discount to the next Qualified Equity Financing and the aggregate Bridge Note principal plus interest at a 10% discount for lack of marketability times an 80% probability of a Qualified Equity Financing closing prior to the maturity date of the Bridge Note. Changes to the assumptions used in such valuation could have a significant impact on these fair values.

Valuation of Derivative Liability Associated with Bridge Notes

The derivative liability relating to the debt component of the Bridge Notes is measured at fair value and is subsequently remeasured at fair value at each reporting date. Changes in the fair value of the derivative liability are recognized as a component of amortization of debt discount and issuance cost in our consolidated statement of operations. We continued to recognize changes in the fair value of the derivative liability embedded in the Bridge Notes until the conversion into the Qualified Equity Financing, which occurred in connection with the conversion of the Bridge Notes into Series B Preferred Units in August 2017.

The embedded option to convert to Series A Preferred Units was deemed to be de minimus. The derivative liability related to the automatic conversion of the Bridge Notes in the Qualified Equity Financing was recorded at fair value using an alternative discounted cash flow method. The derivative liability related to the Bridge Notes was recorded at fair value determined by using an alternative discounted cash flow method. This method of valuation involves using inputs such as a 50% required rate of return, an 80% probability of a Qualified Equity Financing closing prior to the maturity of the Bridge Notes, and an option's ability to convert at a 10% discount into the expected next Qualified Equity Financing. Changes to the assumptions used in such valuation could have a significant impact on the fair value of the derivative liability.

Valuation of Warrant Liability

As discussed above, the warrants to purchase securities in the Qualified Equity Financing were determined to be liability classified. We determined that such warrants potentially obligated us to repurchase or redeem the

future Qualified Equity Financing, as the terms of the Qualified Equity Financing was unknown at the time the warrants were issued alongside the Bridge Notes.

The warrants are recorded as a liability on our balance sheet at their fair value and are revalued at each reporting date, with fair value changes recognized as amortization of debt discount and issuance cost in the consolidated statement of operations. We will continue to adjust the liability for changes in fair value until the earlier of the exercise or expiration of the warrants, or the issuance of securities in a Qualified Equity Financing, at which time the classification of the warrants as liabilities or as equity is reassessed. We estimate the fair value of the liability using option pricing models and assumptions that are based on the individual characteristics of the warrants or instruments on the valuation date, including assumptions for expected volatility, expected life, yield, and risk-free interest rate.

Valuation of Series B Preferred Units and Warrants

Beginning in August 2017 through December 2017, we simultaneously issued Series B Preferred Units (which constituted the Qualified Equity Financing noted above), warrants to purchase Series B Preferred Units at \$0.70 per unit, warrants to purchase Common Units for \$1.25 per unit, and warrants to purchase Common Units for \$0.70 per unit. The Series B Preferred Units and warrants were evaluated by management and determined to be equity classified. Both of these instruments require separate accounting and the proceeds of the issuance of the Series B Preferred Units were required to be allocated to each instrument on a relative fair value basis.

In order to allocate proceeds of the issuance of Series B Preferred Units and warrants to purchase Common Units, a valuation of both instruments at fair value was required. We used a hybrid method to value the Series B Preferred Units and warrants to purchase Common Units. Under the hybrid method, a probability-weighted expected return method and an option pricing model were utilized.

Recent Accounting Pronouncements

A description of recently issued accounting pronouncements that may potentially impact our financial position and results of operations is disclosed in Note 2 "Summary of Significant Accounting Policies" in each of our audited and unaudited consolidated financial statements appearing elsewhere in this prospectus.

Emerging Growth Company Status

In April 2012, the JOBS Act was enacted by the federal government. Section 107 of the JOBS Act provides that an emerging growth company can take advantage of the extended transition period for complying with new or revised accounting standards. Thus, an emerging growth company can delay the adoption of certain accounting standards until those standards would otherwise apply to private companies. We have irrevocably elected to "opt out" of this provision and, as a result, we will comply with new or revised accounting standards when they are required to be adopted by public companies that are not emerging growth companies.

In addition, as an emerging growth company, we will not be required to provide an auditor's attestation report on our internal control over financial reporting in future annual reports on Form 10-K as otherwise required by Section 404(b) of the Sarbanes-Oxley Act.

BUSINESS

Overview

We are a commercial-stage bioelectronic medicine company with a platform non-invasive vagus nerve stimulation therapy initially focused on neurology and rheumatology. Our therapy, gammaCore, has pharmacologic effects on the peripheral and central nervous systems, which modulate neurotransmitters and immune function, gammaCore is FDA-cleared for the acute treatment of pain associated with migraine and episodic cluster headache in adults. Based on our clinical data, we are pursuing label expansions for the prevention of migraine, migraine in adolescents and post-traumatic headache, and we are also engaging in clinical development for potential new labeling claims in rheumatology, including Sjögren's syndrome and rheumatoid arthritis.

gammaCore is the first FDA-cleared, prescription-only vagus nerve stimulation, or VNS, therapy administered in discrete doses using a proprietary, simple-to-use handheld delivery system. Multiple published studies suggest that VNS works through the modulation of neurotransmitters, and has a measurable pharmacologic effect similar to several classes of medications, including selective serotonin reuptake inhibitors, serotonin norepinephrine reuptake inhibitors, GABA analogues, acetylcholine esterase inhibitors and triptan medications, all of which are commonly prescribed. gammaCore activates those fibers in the vagus nerve which are therapeutically relevant for neurotransmitter modulation. This is enabled by our proprietary high-frequency burst waveform that safely and comfortably passes through the skin and stimulates the targeted nerve fibers. Research also indicates that VNS, including gammaCore, modulates the immune system to produce a measurable effect on inflammatory cytokines, as measured in blood samples, comparable to medications that inhibit these cytokines.

Migraine is a debilitating primary headache condition characterized by severe throbbing pain or a pulsing sensation, usually on one side of the head. Migraine affects approximately 12% of the adult population globally and disproportionately impacts women of childbearing years. In the United States, there are approximately 36 million migraine sufferers and, according to the U.S. Pharmacist, a leading pharmacy publication, upwards of 60% of the migraine patient population is dissatisfied with, or has contraindications to, the current standard of care treatments for migraine, such as triptan medications. We estimate the total addressable market for the acute treatment of migraine in the United States in 2018 will be approximately \$3.8 billion. Five million migraine sufferers are treated by approximately 1,100 U.S. headache specialists, primarily neurologists.

Cluster headache, or CH, is a series of relatively short but extremely painful headaches that has been described by patients and physicians as one of the most painful conditions in medicine. The suicide rate among these patients is 20 times the U.S. national average, leading to the condition being referred to as the "suicide headache." There are approximately 350,000 CH sufferers in the United States, approximately 225,000 of whom seek treatment each year primarily from the same headache specialists who treat migraine, and we estimate the total addressable U.S. market for the acute treatment of these patients in 2018 is approximately \$400 million. We believe the significant unmet need and highly-targeted market of CH represents an ideal entry point for our therapy into the headache market, providing an opportunity to gain relevance with treating clinicians in order to support an expansion into migraine. Prior to gammaCore, there was only one FDA-approved, commercially available acute CH treatment, injectable sumatriptan, and according to a 2016 market research survey, 87% of respondents reported dissatisfaction with the then-available treatment options for CH.

Historically, vagus nerve stimulation, or VNS, required a highly invasive surgical procedure to implant a costly medical device that cannot be removed. Due to these limitations, VNS has only been indicated for the most severe patients. gammaCore stimulates the vagus nerve through an easy-to-use handheld delivery system dispensing therapy on a 31-day prescription basis, enabling access to VNS therapy to a much broader patient population than previously possible. gammaCore's successor, gammaCore Sapphire, is a rechargeable and reloadable version of our product intended for multi-year use. It is activated on a monthly basis through the input

of a unique, prescription-only authorization code, delivered via a radio-frequency identification, or RFID, card. In the future, this authorization code may be delivered through the internet, leveraging the Bluetooth capabilities of the gammaCore Sapphire.

Following the FDA's review and grant of our *de novo* application, in April 2017, our gammaCore therapy was FDA-cleared for commercial sale in the United States for the acute treatment of pain associated with episodic cluster headache, or eCH, in adults. A *de novo* review is a regulatory pathway for products deemed by the FDA to be low to moderate risk, but without an applicable predicate. With the successful completion of our *de novo* review, a new regulatory category was created, which enabled us to seek label expansion for our product through the less burdensome 510(k) pathway, utilizing our own product as the predicate. The new regulatory category for external vagal nerve stimulation resulting from our *de novo* review encompasses the treatment of all headache conditions. gammaCore Sapphire was cleared by the FDA through the 510(k) pathway in December 2017. In January 2018, the FDA cleared our gammaCore therapy as an acute treatment for pain associated with migraine in adults.

In addition to our lead indications for the acute treatment of pain associated with both migraine and eCH in adults, we are also pursuing clinical programs to support label expansion filings for adolescent migraine, headache prevention indications, and the treatment of post-traumatic headache. Table 1 below summarizes our headache-related areas of focus for gammaCore:

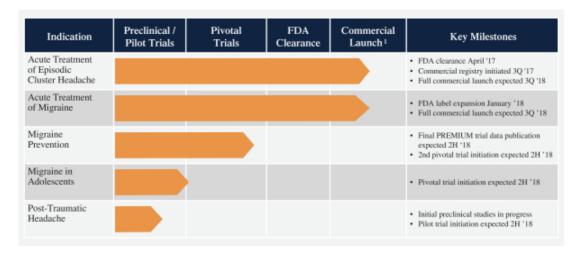


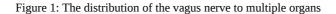
Table 1: Our Headache Pipeline

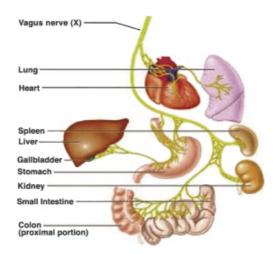
Modulation of the peripheral immune system by VNS provides mechanistic support for the study of gammaCore in the treatment of inflammatory disorders. Based on initial positive results from our pilot trials, we expect to initiate a series of pivotal trials designed to support regulatory approvals in multiple rheumatologic conditions, including Sjögren's syndrome and rheumatoid arthritis.

The gammaCore product registry for the acute treatment of cluster headache constitutes our initial commercialization efforts for our product. The full product launch is expected in the third quarter of 2018.

Background of VNS

The vagus nerve is the largest and most extensive cranial nerve, connecting the brainstem to nearly every organ in the chest and abdomen, including the heart, lungs, liver, stomach, spleen, kidneys, and digestive tract, as shown in Figure 1 below.





Activation of the vagus nerve causes the release of neurotransmitters, both in the central and peripheral nervous systems, modulating how the brain and peripheral organs function. In the central nervous system, VNS activates areas of the brainstem that release norepinephrine, acetylcholine, serotonin, GABA and other important neurotransmitters. These effects can be used to treat multiple conditions, including epilepsy, depression and headache. The impact of neurotransmitter modulation in the periphery has been shown to have multiple beneficial effects, including the reduction of systemic inflammatory cytokines. VNS is being studied for use in a number of inflammatory conditions, including Sjögren's syndrome, rheumatoid arthritis and Crohn's disease.

Over the past two decades, the body of scientific evidence in support of VNS in multiple medical conditions has been growing. However, this potential has remained unfulfilled because the therapy could only be delivered using electrodes wrapped around the vagus nerve, connected to a signal generator implanted in the chest wall. To implant these devices, the vagus nerve must be surgically exposed from its anatomical position, entwined with the carotid artery.

Prior to gammaCore, VNS was only accessible to the most refractory patients, who were willing to endure surgery, and payors were forced to spend tens of thousands of dollars prior to determining the efficacy of the post-surgical therapy for those patients. With the clearance of gammaCore, this safe and effective therapy can now be noninvasively self-administered, at a fraction of the initial cost, exponentially expanding its accessibility for the potential treatment of multiple medical conditions.

Preclinical Evidence of gammaCore's Activation of the Vagus Nerve

During the development of gammaCore, we pioneered a series of inventions that enable the comfortable passage of our proprietary therapeutic signal to specifically targeted fibers of the vagus nerve. Confirmation that our delivery technology successfully activates the vagus nerve has been published by independent researchers who performed electromagnetic field modeling demonstrating that our therapy establishes the necessary charge gradients in the targeted nerve fibers, without depositing a net charge to the overall tissue that would cause significant discomfort.

Confirmation of this electromagnetic field modeling has been conducted in humans, and published by multiple independent research groups. Specifically, these experiments show that gammaCore produces changes in electroencephalography, or EEG, similar to what has been observed with VNS delivered using surgically implanted devices, and does so in a dose-dependent manner, consistent with chemical and biologic pharmaceutical products.

In addition, we have sponsored research by multiple groups of independent scientists to demonstrate that gammaCore activates the critical areas in the brainstem necessary to provide clinically beneficial effects. These studies included both functional magnetic resonance imaging, and magnetoencephalography, both of which showed that gammaCore activates critical areas in the brainstem, including the substantia nigra, the nucleus raphe magnus, or NRM, the periaqueductal gray, or PAG, and the thalamus.

Additional studies showed that when these areas of the brainstem were activated by VNS, including gammaCore, there was a measurable upregulation in the neurotransmitters that modulate pain, including norepinephrine, GABA, acetylcholine, and serotonin. VNS modulates not only the functional state of the central nervous system, but also the activation state of the immune system. VNS, including gammaCore, has also been shown to produce a measureable inhibition of the inflammatory cytokines IL-6, IL -1ß and TNF-a.

Multiple peer-reviewed publications suggest that by upregulating these neurotransmitters and by inhibiting inflammatory cytokines, VNS, including gammaCore, has pharmacologic effects similar to that of selective serotonin reuptake inhibitors, serotonin norepinephrine reuptake inhibitors, GABA analogues, acetylcholine esterase inhibitors, triptans and many anti-inflammatory therapies because they are thought to function through the same or similar mechanisms, and produce similar, measurable changes in neurotransmitter and cytokine levels.

Our Therapy Delivery Platform

Our gammaCore therapy is the first and only treatment that non-invasively activates the therapeutically relevant fibers in the cervical trunk of the vagus nerve. More specifically, our therapy employs proprietary signals that are capable of passing through skin while minimizing the activation of skin pain receptors.

Our therapy is prescription-only, and like medications delivered by metered-dose inhalers, patients self-administer discrete doses using a handheld unit that can be either disposable or reusable. In either case, the therapy is dispensed through a monthly prescription from a specialty pharmacy.

gammaCore Sapphire is the non-disposable, rechargeable and reloadable option for patients requiring therapy on an on-going basis. It is refilled monthly through the input of a unique, prescription-only authorization code, delivered through an RFID card dispensed by mail through our specialty pharmacy distributor. In the future this refill may be dispensed directly through the internet using Bluetooth. We currently expect to commercially launch gammaCore Sapphire in the United States in the third quarter of 2018 and within select foreign markets in the fourth quarter of 2018. In general, we will no longer market the predicate disposable version of our gammaCore product in markets where the gammaCore Sapphire is launched. In select cases, we may continue to use the predicate gammaCore product, for example, there may some clinical studies in which we may still use the original gammaCore product.

Competitive Strengths

We believe the competitive strengths of our company and our novel and proprietary self-administered bioelectronic therapy include:

• *Innovative bioelectronic medicine approach.* Our gammaCore therapy uses a proprietary electric signal to safely deliver bioelectronic medicine, which causes targeted pharmacologic-like changes in neurotransmitter expression and in the immune system, without systemic exposure to exogenous chemicals.

- Our non-invasive therapy unlocks the long-held potential of VNS. VNS therapy can, for the first time, be delivered safely and comfortably through the skin using gammaCore. This eliminates the need for costly, invasive surgery that requires the implantation of a permanent medical device. VNS therapy is no longer reserved for the most refractory patients, and is now a first-line treatment option.
- Commercializing our therapy through traditional pharmaceutical channels. Our non-invasive delivery modality permits medical professionals to prescribe VNS through the same channel they would any other specialty medication. Refills delivered on a monthly basis enable us to seek widespread commercial payor coverage and reimbursement under a traditional pharmaceutical model. We have agreements in place with commercial payors that we believe, based on our estimates, will provide for reimbursement for gammaCore as a pharmacy benefit for approximately 17 million commercial lives, with such number expected to increase to as many as 45 million lives under those agreements over the next several calendar quarters.
- *Highly scalable and low investment manufacturing with digital refills.* Our low manufacturing and assembly costs allow us to scale to meet demand with minimal additional investment. Refills through RFID or Bluetooth may offer attractive gross margins.
- **Potential for rapid label expansion in headache and regulatory approval in additional indications.** The safety profile of gammaCore enabled us to utilize the *de novo* regulatory pathway through which the FDA established a new therapeutic category: external vagal nerve stimulator for the treatment of headache. Through the 510(k) pathway, we received clearance for our gammaCore therapy for the acute treatment of pain associated with migraine in adults in January 2018. We believe a similar regulatory pathway may be available to us for additional indications in rheumatology.
- **Broad intellectual property protection.** Among our key issued patents, we have coverage on using our high-frequency burst signal for treating certain medical conditions until 2031, the low-pass filtering of that signal to ensure safe and comfortable transmission through the skin until 2031, the non-invasive treatment of headache conditions until 2029, and the remote network-enabled communication for the delivery of neuromodulation therapy for a broad range of medical conditions until 2033.
- *Highly experienced management team*. Our management team includes a diverse group of executives with significant experience in senior positions in the pharmaceutical and medical device industries, including positions at Pfizer, Merck, Novartis, Stryker and Zimmer Biomet. Members of our team have been involved in the launch and marketing of products including Motrin, Celebrex, and the migraine drugs Axert and Maxalt. Our team's pharmaceutical experience in clinical development, sales, marketing and reimbursement, and its medical device experience in research, development and regulatory affairs, allow us to pursue our strategy and growth plans.

Our Strategy

Our goal is to be a leader in bioelectronic medicine by using our proprietary non-invasive VNS platform therapy to deliver better patient outcomes. The key elements of our strategy include:

- Drive acceptance of our gammaCore products as a leading headache therapy, introducing it in cluster headache and expanding into migraine. We plan to establish gammaCore as the first-line treatment option for neurologists when treating eCH patients, who have few alternative treatment options available to them. We will then leverage this position to expand into the broader headache market for migraine in the third quarter of 2018.
- **Drive reimbursement of our therapy.** We are actively engaging with over 50 national and regional commercial insurance payors in the United States with the goal of securing reimbursement coverage as a pharmacy benefit. To date, we have secured agreements with commercial payors that we believe, based on our estimates, will provide for reimbursement for gammaCore as a pharmacy benefit for approximately 17 million commercial lives, with such number expected to increase to as many as 45 million lives under those agreements over the next several calendar quarters, and are in active

clinical review discussions with more than a dozen additional insurance plans covering approximately 120 million additional commercial lives.

- **Build a leading commercial presence.** We are establishing a robust commercial capacity, including a specialty distribution channel with a patient-focused concierge service to quickly onboard patients and manage payor interactions. We are expanding our direct sales force to target high prescribing neurology specialists and headache centers that originate the substantial majority of new prescriptions for severe headache patients in the United States. In the first year following our commercial launch into migraine, we expect to be able to target 120 national headache centers and approximately 6,400 physicians.
- **Rapidly advance our pipeline**. In 2018, we expect to initiate pivotal trials to support potential label expansion in headache, including additional trials in migraine prevention and migraine in adolescents. In 2018, we also expect to initiate our first major trial in rheumatology, a pivotal trial in Sjögren's syndrome. Over the next 24 months, we anticipate additional sponsored trials will be conducted in both neurology and rheumatology, including in rheumatoid arthritis.

Our Lead Indications in Headache

In January 2018, gammaCore was cleared by the FDA for commercial sale in the United States as an acute treatment for pain associated with migraine in adults. This followed the April 2017 grant of our *de novo* application by the FDA that cleared our gammaCore for commercial sale in the United States for the acute treatment of pain associated with episodic cluster headache, or eCH, in adults. In accordance with our strategy to establish gammaCore as the preferred treatment for neurologists across headache, we initially targeted a high unmet need population in eCH to establish relevance with prescribing clinicians and gain reimbursement from payors. From this position, we are now expanding into the broader headache market, starting with migraine.

CH sufferers experience a series of relatively short but extremely painful headaches that have been described by patients and physicians as one of the most painful conditions in medicine. CH predominantly affects males in their prime earning ages of 20 to 50, with bouts of frequent attacks, known as cluster periods, often occurring every other day, and up to eight times a day. Individual attacks can last from 15 minutes to as long as three hours, with these frequent attacks continuing for a prolonged period. Among CH patients, 85% to 90% experience eCH, with cluster periods, or bouts, lasting from two to 12 weeks, followed by a remission period often cycling into bout twice per year. Chronic CH, or cCH, patients experience no periods of remission or remission periods of less than 3 months in a 12-month period. The suicide rate of CH sufferers is 20 times the U.S. national average, leading to the condition being referred to as the "suicide headache." In the United States, CH affects approximately 350,000 people. There is only one FDA-approved commercially available pharmaceutical option for acute CH treatment, and none for its prevention.

Migraine, the third most common disease in the world, is a debilitating primary headache condition characterized by severe throbbing pain or a pulsing sensation, usually on one side of the head, often associated with nausea and sensitivity to light and sound. Migraine impacts more than 36 million people in the United States, disproportionately affecting women of childbearing years, with peak onset during the adolescent ages of 12 to 16. While migraine sufferers have a number of approved and available treatments, the side effects and incomplete efficacy of these options continues to drive a high level of dissatisfaction with current therapies.

Our first FDA clearance, received following the grant of our *de novo* application, was for the acute treatment of eCH in adults, and is supported by two pivotal trials: our ACT 1 trial, or ACT 1, and our ACT 2 trial, or ACT 2. The primary endpoints of these trials were pain reduction and pain-freedom within 15 minutes of the onset of the attack, respectively. While neither trial reached statistical significance with respect to its primary endpoint in the combined eCH and cCH populations, both trials reached statistical significance (ACT 1; 34.2%; ACT 2; 47.5%; *p*<0.01 in each trial) on the primary endpoint in the eCH cohort.

Our FDA clearance for the acute treatment of migraine in adults is principally supported by our pivotal trial, PRESTO. The primary endpoint of PRESTO was pain-freedom at 120 minutes. While this trial did not reach statistical significance with respect to its primary endpoint, statistical significance was achieved for complete pain relief at 30 minutes (12.7%; p=0.01), and maintained at 60 minutes (21.0%; p=0.02), and under a repeated-measures analysis, through the full 120-minute period (30.4%; p=0.01).

The Limitations of Pharmaceutical Treatment Options in Headache

There is only one FDA-approved commercially available pharmaceutical treatment for the acute treatment of CH, injectable sumatriptan. Patients have typically been limited to fewer than 10 injections per month, primarily due to cost and toxicity. In addition, the technical difficulty of subcutaneously self-injecting a medication during a CH attack may also limit use of this therapy. As a result, patients typically have enough medication to treat, on average, only a fraction of their monthly CH attacks. There are no approved treatments for the prevention of CH, driving patients to use off-label medications, such as lithium, valproic acid and high-dose verapamil, which have unproven efficacy and the potential for significant toxicity, including adverse cardiac events. In a 2016 market research survey of CH patients, 87% of the respondents were dissatisfied with the then-available treatment options.

Although there are more prescription therapies available for migraineurs than CH sufferers, according to the U.S. Pharmacist, a leading pharmacy publication, upwards of 60% of the migraine patient population has reported dissatisfaction with, or has contraindications to, the current standard of care treatments for migraine. These medications include triptans, ergotamines and anti-epileptic medications. Despite the fact that neurologists recognize the limited efficacy of, and the potential for abuse associated with, opioids, they continue to be prescribed at high rates, particularly in emergency departments for the treatment of migraine. Many other primary headache conditions, and secondary headaches, such as post-traumatic headache, have proven refractory to pharmaceutical interventions, presenting a significant unmet need in the market.

Cluster Headache

The Condition. CH sufferers experience a series of relatively short but extremely painful headaches. The clinical criteria for CH define the attacks as frequent, severe, short-duration head and eye socket pain, accompanied by autonomic symptoms, such as sweating, tearing, swelling of the eyelid, and sinus congestion on only one side of the face. CH patients are typically agitated, pacing, moaning and sobbing, and often beat or claw at their heads in desperation.

CH patients, and the physicians who treat them, describe the attacks as one of the most painful conditions in medicine. The prevalence of CH is three times higher in males than in females, and peaks in their prime earning ages of 20 to 50. Attacks can last from 15 minutes to as long as three hours, with these frequent attacks occurring, on average, twice per day. For some, they can occur as many as eight times per day. CH is known as the "suicide headache" because the suicide rate among CH sufferers is a reported 20 times higher than that for the general population in the United States. During attacks, CH patients have been known to harm themselves as a distraction from the excruciating pain.

CH can be either episodic, eCH, or chronic, cCH. eCH sufferers experience alternating periods of attacks and remission lasting weeks or months. cCH sufferers experience extended periods of attacks, occurring without a remission period, or with remissions lasting less than three months, for at least one year.

Prevalence and market size. The estimated prevalence of CH in the United States ranges from 0.1% to 0.2% of the total population, with consensus around 350,000 as the number of affected patients, of which 225,000 patients seek medical treatment annually. eCH patients average approximately four months per year in bout. We estimate the total addressable market for the acute treatment of eCH in the United States in 2018 will be approximately \$400 million.

Economic Burden. According to a recent published study in The American Journal of Managed Care, the overall average medical costs for eCH patients over a three-year period exceeded \$22,500, compared with \$10,140 among non-headache sufferers. Similarly, the overall average pharmacy costs per eCH patient during this period were \$8,200, which was nearly double that of the non-headache sufferers. Participants in surveys of sufferers indicate that CH is associated with a large socioeconomic burden. For example, research found that nearly 20% of patients with CH reported loss of employment and approximately 8% are unemployed or receiving disability services due to the disorder.

Other Therapies for Cluster Headache. Other than gammaCore, there is only one FDA-approved commercially available therapy for acute treatment for CH, injectable sumatriptan (Imitrex). The side effect profile and cost of Imitrex, however, typically limits patient access to only six to 10 doses per month, which usually enables patients to treat only a small fraction of their attacks each month. Even at this limited access level, the monthly cost of Imitrex for CH patients and their insurance providers averages more than \$700. Imitrex use is also limited by the requirement for patients to subcutaneously self-inject, which may be particularly difficult to do while experiencing a CH attack. In a 2016 market research survey of CH patients, 87% of the respondents were dissatisfied with the then-available treatment options.

Preclinical Evidence of VNS Mechanisms of Action in Acute Cluster Headache

It is generally believed that the neural circuit involved in CH includes activation and inhibition of the trigeminal cervical complex, or TCC, shown in Figure 2 below. The TCC is a region of the brainstem associated with pain processing. Activation of facial nerves, including those relaying through the sphenopalatine ganglion, or SPG, activate the TCC. This belief is supported by evidence showing that activation of this pathway can cause CH-like attacks. Inhibition of the TCC is provided by inhibitory neurotransmitters, like serotonin, GABA and norepinephrine, which are released by neurons residing in the PAG, the NRM, and the locus coeruleus, or LC.

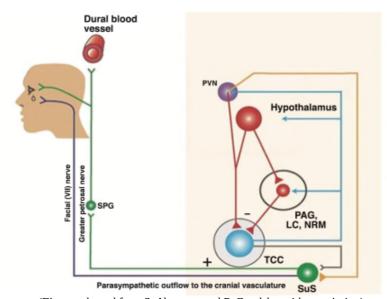


Figure 2: The neural circuit believed to be associated with CH.

(Figure adapted from S. Akerman and P. Goadsby, with permission)

One possible mechanism by which gammaCore acutely treats CH attacks may be through enhancement of inhibitory signals to the TCC. To test this, we sponsored research in which recording electrodes were inserted

into the TCCs of rats to measure the effects of VNS on normal activity, or ongoing spontaneous neuronal firing, and activity under pain-simulated conditions, or dural-evoked pain fiber firing, the latter being caused by irritation of the outermost covering of the brain, or dura. As seen in the published graphs in Figures 3 and 4 below, VNS significantly suppressed activity in the TCC in both cases. These data suggest that the strengthening of the inhibition pathways is a mechanism of action for gammaCore.

Figure 3: VNS applied in two doses, separated by five minutes, was able to suppress ongoing spontaneous firing of the neurons in the TCC, by more than 50%, with a duration of effect greater than two hours.

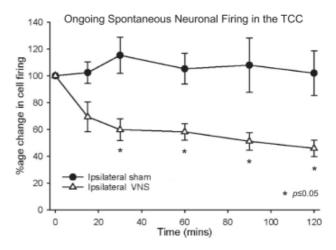
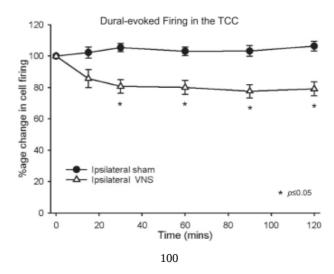


Figure 4: A pair of VNS doses, separated by five minutes was able to suppress firing of the pain fibers in the TCC under pain simulated conditions by approximately 30%, with a stable duration of effect of more than two hours.



Clinical Data of gammaCore as an Acute Treatment for Cluster Headache

We have completed one pilot trial and two parallel pivotal trials examining the efficacy, safety and tolerability of gammaCore for the acute treatment of CH as summarized in Table 2 below:

Table 2: Overview of our CH trials for gammaCore

Trial	Phase	Enrolled Patients (n)	Design	Date Published
Royal Free Hospital Pilot Trial	Pilot	25	Single-site, Open-label	2015
ACT 1	Pivotal	150	Multi-center, randomized, sham-controlled	2016
ACT 2	Pivotal	103	Multi-center, randomized, sham-controlled	2017

Our First Open-Label Trial

We sponsored an open-label trial of gammaCore for the acute treatment and prevention of CH at the Royal Free Hospital, published in 2015. The trial enrolled 25 patients, 19 of whom provided evaluable data. Of these evaluable patients, 11 had cCH and 8 had eCH. Seven of the cCH patients were considered to be drug-refractory and had failed reasonable attempts with multiple different preventative agents. Five patients with cCH provided long-term data for a full 52 weeks. In this trial, an evaluation of the efficacy of the therapy was based on patient-reported estimates of their CH attack frequency.

Fifteen of the 19 evaluable patients in this trial reported an overall improvement in their condition from baseline, with four stating that their condition had remained the same. No patients reported a worsening of their preexisting condition. Results demonstrated a mean improvement of 48% in CH attack frequency. Five of the eleven cCH patients had a one-year extended follow-up, which showed a mean estimated improvement in attack frequency at 26 weeks of 62% and maintenance at 52 weeks of 58%. In regard to acute efficacy, patients in this trial reported that gammaCore aborted attacks within an average time of 11 minutes of initial treatment. The long-term durability of this response was stable in four of the five patients with cCH who reported on their gammaCore use at both 26 and 52 weeks.

No serious adverse events were reported in this trial during and after treatment. Adverse events of mild severity reported in this trial included local discomfort during and after device use and mild skin reactions to the conductive gel.

Our Registration Trials for Acute Treatment of CH - ACT 1 and ACT 2

Our first FDA clearance, received following the grant of our *de novo* application, was for the acute treatment of eCH, and is supported by two multi-center, randomized clinical studies, ACT 1 and ACT 2. These trials, in aggregate, enrolled 253 patients, including both eCH and cCH patients. The primary endpoints of these trials were pain reduction and pain freedom within 15 minutes of the onset of the attack, i.e. mild pain or pain-free in ACT 1 and pain-free in ACT 2. Neither trial reached statistical significance with respect to the primary endpoint in the total population, but they did reach statistical significance on the primary endpoint and multiple secondary endpoints in their eCH subpopulation. eCH represents 80-90% of the overall CH population. In ACT 1, our gammaCore therapy demonstrated an ability to reduce pain to mild or pain-free status in eCH patients within 15 minutes of the onset of the attack more than three times as frequently as the sham treatment (gammaCore, 34.2%; sham, 10.6%; *p*<0.01). In ACT 2, which had a more stringent primary endpoint, our

gammaCore therapy demonstrated an even stronger therapeutic effect compared to the sham treatment among eCH patients (gammaCore, 47.5%; sham, 6.2%; *p*<0.01).

Our ACT 1 Trial - gammaCore for the Acute Treatment of Episodic and Chronic Cluster Headache

ACT 1 was a pivotal, randomized, double-blind, sham-controlled prospective trial of gammaCore for the acute treatment of CH. The trial enrolled 150 patients and was conducted at 20 centers in the United States, including academic medical centers and other tertiary headache clinics. ACT 1 was designed to assess the superiority of our gammaCore therapy in comparison to sham treatment and was comprised of two phases: (1) a double-blind phase in which patients were randomized to receive gammaCore therapy or sham treatment for one month or until five CH attacks were treated and (2) an open-label phase in which patients who completed the double-blind phase could subsequently receive three months of our gammaCore therapy. The primary endpoint for the trial was response rate, defined as the proportion of patients who achieved pain relief (pain intensity of 0 or 1 on a 5 point scale) at 15 minutes after treatment initiation for the first CH attack treated. Investigators, patients, and study coordinators were blinded to treatment assignments in the double-blind phase of the trial. The ACT 1 results were published in 2016.

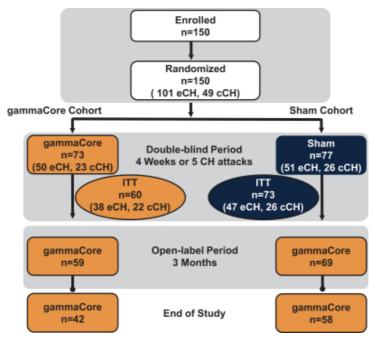


Figure 5: ACT 1 Trial Consort Diagram

As shown in Figure 5 above, in ACT 1, 150 patients were enrolled and 133 patients met the criteria for the intent-to-treat, or ITT, population (gammaCore, n=60; sham, n=73). Of the 133 patients in the ITT population, 128 patients entered the open-label period, 100 of whom completed the trial. Twenty-eight patients did not complete the open-label period for a variety of reasons, the most common of which was persistence of their CH condition during the treatment period. Demographic and baseline characteristics were similar between the gammaCore and sham cohorts and were consistent with those of a typical CH population. Of the 133 patients in the ITT cohort, most had eCH (85) and the remaining had cCH (48).

Response rates for the primary endpoint in the total ITT population, which includes both eCH and cCH patients, were numerically superior for gammaCore than for sham treatment (gammaCore, 26.7%; sham, 15.1%;

p=0.1). Additionally, as shown in Figure 6 below, in a predefined analysis of the eCH subpopulation, a significantly higher response rate was demonstrated with gammaCore than with sham (gammaCore, 34.2%; sham, 10.6%; *p*<0.01).

Superior sustained treatment response rates were statistically significant for gammaCore compared with sham among the total population (gammaCore, 26.7%; sham, 12.3%; *p*=0.04), however, this superior response was most pronounced for the eCH subpopulation (gammaCore, 34.2%; sham, 10.6%; *p*<0.01). This observation of strongest clinical benefit in the eCH cohort was also demonstrated with respect to the proportion of patients who were responders at 15 minutes for 350% of their treated attacks (gammaCore, 34.2%; sham, 14.9%; p=0.04). Results were also significant in the eCH subpopulation for the proportion of those who were pain-free at 15 minutes for 350% of treated attacks (gammaCore, 15.8%; sham, 2.1%; p=0.04).

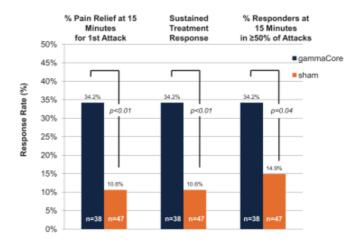


Figure 6: Selected Results for eCH Patients in the ACT 1 Trial

No serious adverse events, or SAEs, were attributable to gammaCore in ACT 1. Across all patients, 33% (49/150) had one or more adverse events, or AEs, during the double-blind period (gammaCore, 18; sham, 31). AEs occurred in 35 patients during the double-blind phase, at more than double the rate in the sham cohort than the gammaCore subpopulation. During the open-label period, 33% (42/128) of all patients had one or more AEs. As shown in Table 3 below, the most commonly occurring adverse events relating to the therapy, or ADEs, were application site reactions, all of which were mild, transient, and tended to be self-limiting in nature.

Double-Blind Phase Open-Label Phase gammaCore Sham gammaCore

(n=73)(n=77)(n=128)ADEs Occurring in >1 Subject in Any Treatment Group, No. (%) Application site reactions (skin 2(2.7)16 (20.8) 6 (4.7) irritation, tingling) 0 9 (7.0) Muscle twitching 8 (11.0)

Table 3: Most Commonly Reported ADEs from the ACT 1 Trial

7(9.1)

2(1.6)

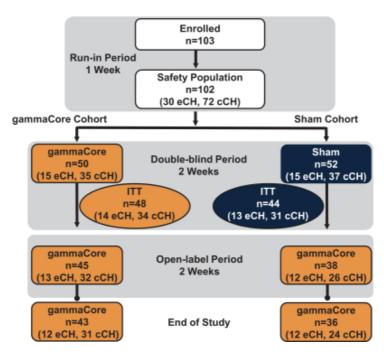
Metallic taste

ACT 1 was the first randomized, double-blind, sham-controlled trial evaluating the effects of non-invasive neuromodulation for the acute treatment of CH. As seen in the pre-defined subpopulation analysis, gammaCore demonstrated significant therapeutic benefit across a broad range of endpoints for the eCH subpopulation, including first attack response rate, sustained treatment response rate, the percentage of patients who responded to gammaCore for $^350\%$ of their attacks, and of those, the percentage who were pain-free. These results suggest that response to an initial gammaCore treatment predicts likely response to treatment for subsequent attacks. In addition, among the full study population, the average duration of attack for the first attack treated was reduced among the gammaCore-treated cohort by an average of 9.5 minutes while the sham-treated group reported an attack duration that increased by 12.8 minutes. This difference was statistically significant (p=0.03). Among the eCH subpopulation, this difference was more pronounced, with the gammaCore group experiencing an average decrease in attack duration of 14.4 minutes, while the sham-treated group reported their average attack duration rise by 16.3 minutes (p=0.03). Attack duration has not traditionally been used to quantify clinical meaningfulness of treatments in CH, however, given the extreme nature of the pain associated with these attacks, it is further support for the value of our gammaCore therapy, especially among eCH patients.

Our ACT 2 Trial — gammaCore for the Acute Treatment of Episodic and Chronic Cluster Headache

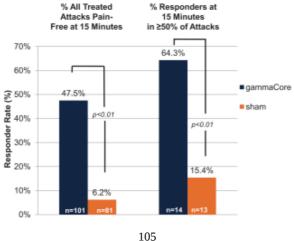
ACT 2 was a pivotal, randomized, double-blind, sham-controlled prospective trial of gammaCore for the acute treatment of eCH and cCH. The trial enrolled 103 patients and was conducted in four European countries at academic medical centers and other tertiary headache clinics. ACT 2 was designed to assess the superiority of our gammaCore therapy in comparison to sham treatment and was comprised of three phases: (1) a one-week run-in period, (2) a two-week, randomized, double-blind period during which patients were treated with either our gammaCore or sham therapy, and (3) a two-week, open-label period in which patients could subsequently receive gammaCore therapy. The primary endpoint for the trial was response rate, defined as the proportion of all attacks that achieved pain freedom at 15 minutes after treatment initiation. Investigators, patients, and trial coordinators were blinded to treatment assignments during the double-blind period. In total, 495 attacks were treated with active gammaCore therapy and 400 with the sham treatment. The ACT 2 trial results were published in 2017.

Figure 7: ACT 2 Trial Consort Diagram



As shown in Figure 7 above, in ACT 2, 103 patients were enrolled, 102 patients met the criteria for the safety population, and 92 patients met the criteria for the ITT population (gammaCore, n=48; sham, n=44). Of the 92 patients in the randomized phase of our ACT 2 trial, 83 entered the openlabel period and 79 completed the trial. Demographic and baseline characteristics were similar between the gammaCore and sham cohorts and were consistent with those of a typical CH population. Of all 102 patients in the safety population, most had cCH (71%) and the remaining 29% had eCH. Although eCH occurs more frequently than cCH, we enrolled more cCH patients in the ACT 2 trial because a greater proportion of them are in bout at any given time.

Figure 8: Selected Results for predefined eCH subpopulation in the ACT 2 Trial



As shown in Figure 8 above, consistent with the results from the ACT 1 trial, a predefined subpopulation analysis in ACT 2 demonstrated a higher response rate to gammaCore in the eCH subpopulation than in the cCH subpopulation. In the eCH subpopulation, a higher proportion of treated attacks achieved pain-free status with gammaCore than with sham (gammaCore, 47.5%; sham, 6.2%; p<0.01). No treatment difference for this endpoint was seen in the cCH cohort (gammaCore, 4.8%; sham, 12.9%; p=0.13) in this trial.

The mean proportion of treated attacks per subject that achieved responder status within 30 minutes was greater with gammaCore than with sham for the total ITT population (gammaCore, 42.7%; sham, 27.6%; *p*=0.05).

As shown in Table 4 below, the proportion of subjects who achieved responder status with statistical significance for $^350\%$ of treated attacks at 15 minutes was higher with gammaCore than with sham in the total ITT population (gammaCore, 39.6%; sham, 13.6%; p<0.01) and the eCH subpopulation (gammaCore, 64.3%; sham, 15.4%; p<0.01), but was not higher with statistical significance in the cCH cohort (gammaCore, 29.4%; sham, 12.9%; p=0.11).

 gammaCore
 39.6%
 64.3%
 29.4%

 sham
 13.6%
 15.4%
 12.9%

 p-value
 p<0.01</td>
 p<0.01</td>
 p=0.11

Table 4: Selected Results for the ACT 2 Trial

No SAEs were attributable to gammaCore in ACT 2. Of all patients, 33% (34/102) had one or more AEs during the double-blind phase of the trial. Of the non-serious AEs, 19 patients (gammaCore, 9; sham, 10) experienced one or more treatment-related AEs during the double-blind phase of the trial. As shown in Table 5 below, the most commonly occurring of these AEs were application site reactions, all of which were mild, transient, and tended to be self-limiting in nature.

Table 5: Most Commonly Reported ADEs from the ACT 2 Trial

	Double-Blind Phase		Open-Label Phase
	gammaCore (n=50)	Sham (n=52)	gammaCore (n=83)
ADEs Occurring in >1 Subject in Any Treatment Group, No. (%)			
Application site reactions (irritation, paresthesia, rash)	7 (14.0)	3 (5.7)	2 (2.4)
Muscle pain or twitching	0	1 (1.9)	4 (4.8)

The ACT 2 trial results confirm and extend the findings from ACT 1. ACT 2 demonstrated the significant therapeutic benefit of gammaCore across a broad range of endpoints, including the mean proportion of treated attacks per subject that achieved responder status within 15 minutes across all patients. The greatest clinical benefit was observed in a predefined analysis of the eCH subpopulation, including the proportion of all treated attacks that achieved pain-free status within 15 minutes and 30 minutes. These results suggest that initial response to our gammaCore therapy predicts likely response to treatment for subsequent attacks. As with our ACT 1 trial, gammaCore was well tolerated in ACT 2.

Our Pooled Analysis of ACT1 and ACT2 for the Acute Treatment of Episodic Cluster Headache

To further define the benefit of gammaCore for the acute treatment of eCH, the data from ACT 1 and ACT 2 were pooled to assess the overall response to each trial's primary endpoint, as shown in Figure 9 below. Collectively there were 112 eCH patients and 113 cCH in the pooled data set. Among the 112 patients with eCH, more patients who treated with gammaCore achieved mild or pain-free status at 15 minutes for the first attack treated (the ACT1 primary endpoint) compared with those in the sham cohort (gammaCore, 38.5%; sham, 11.7%; p<0.01). Similarly, the proportion of all treated attacks in these eCH subpopulation reaching pain freedom at 15 minutes (the ACT 2 primary endpoint) was greater in the gammaCore cohort compared to the sham cohort (gammaCore, 24.1%; sham, 7.3%; p<0.01). Both studies individually met statistical significance on this endpoint (ACT 1: gammaCore, 15%; sham, 6%; p<0.05; ACT 2: gammaCore, 48%; sham, 6%; p<0.05).

The proportion of these eCH patients who achieved mild or pain-free status at 15 minutes in $^350\%$ of their treated attacks was higher for gammaCore compared to sham (gammaCore, 42.3%; sham, 15.0%; p=0.01). These findings are consistent with the findings of each trial individually (ACT 1: gammaCore, 34.2%; sham, 14.9%; p=0.04; ACT 2: gammaCore, 64.3%; sham, 15.4%; p=0.02).

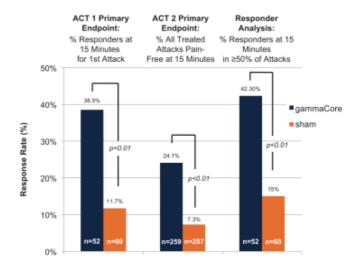


Figure 9: Selected Results of the Pooled Analysis of the ACT 1 and ACT 2 Trials for eCH Patients

This analysis demonstrated that gammaCore is effective and well tolerated in aborting attacks in eCH, but did not appear to have similar efficacy in cCH. Important advantages over existing treatment options are that gammaCore is easy-to-use and may be applied for as many attacks as a patient experiences per day, without the frequency-of-use restrictions and contraindications associated with other treatments.

Migraine

The Condition. Migraine is a debilitating condition characterized by severe throbbing pain usually on one side of the head, often associated with nausea and sensitivity to light and sound. The pain associated with migraine attacks often has a pulsing quality that is synchronized with heartbeat and is typically worsened by physical activity. According to the International Classification of Headache Disorders, the pain phase of a migraine can last for four to 72 hours. More than two-thirds of sufferers are unable to work or function normally during the pain phase of a migraine attack.

Migraine attacks are characterized by the presence or absence of a preceding aura phase. Aura is a phenomenon associated with neural hyperactivation and synchronized depolarization in the brain, and is

characterized by visual or other functional disturbances. 30% of patients report aura preceding at least a portion of the migraine attacks they experience. Migraines are categorized by the frequency with which they occur. With chronic migraine, affecting 10% of the total migraine population, patients suffer migraine attacks on 15 or more days of the month, on average. With episodic migraine, patients experience 14 or fewer migraine attacks per month.

Prevalence and Market Size. According to the World Health Organization, migraine ranks as the third most common disease in the world and the leading cause of disability among neurological disorders. Migraine will affect approximately 12% of the adult population globally, currently affecting approximately 36 million people in the United States, the majority of whom are women of childbearing years. Population-based studies of insured individuals reveal that, annually, 4.5% of the adult population seeks treatment for primary headache, the vast majority of which is for migraine. In the United States and EU, research has found that the age of first diagnosis of migraine peaks in the early-to-mid teens and the disease continues to persist throughout adulthood for many of these sufferers, demonstrating that it is often a disorder of long duration.

An estimated five million migraine patients in the United States require the care of a headache specialist. These specialists, many of whom also treat CH, comprise the approximately 1,100 physicians who practice in over 120 tertiary care centers in the United States. Although the triptan drug class is the current standard of care for the acute treatment of migraine, according to the U.S. Pharmacist, a leading pharmacy publication, more than 60% of patients have reported dissatisfaction with, or have contraindications to, the current standard of care, such as triptan medications. This dissatisfaction may partly explain the sub-25% penetration rate for available generic triptan medications. Despite these limitations, we estimate that the addressable market for the acute treatment of migraine in the United States in 2018 will be approximately \$3.8 billion.

Economic Burden. Over the past several decades, migraine has been associated with persistently greater total annual medical costs. An independent study conducted in 1999 found that migraine sufferers in California had annual total medical expenses two and a half times higher than non-migraine sufferers. A 2011 study conducted by GNS Healthcare and sponsored by us demonstrated consistent results among the nearly 5% of 21 million privately insured patients in the United States who receive diagnosis of migraine annually.

Current Acute Migraine Treatments and Their Limitations. Triptan medications, or Triptans, are a family of tryptamine-based drugs first sold in the 1990s, which account for approximately 80% of the acute treatments prescribed for migraine. Triptans are sold in oral, nasal, and subcutaneous formulations. Through their binding to specific seratonin receptor subgroups, Triptans cause constriction of blood vessels in the outer covering of the brain, or the meninges. This vasoconstrictive activity also affects blood vessels in other areas of the body, including the heart, which accounts for important risks associated with their use, and labeling limitations on the frequency of their use.

Other less commonly prescribed acute migraine treatments include ergotamines and analgesics, including non-steroidal anti-inflammatory drugs, or NSAIDs, acetaminophen and antiemetics. Dihydroergotamine, or DHE, is a grain fungus derivative that, like triptans, is a potent vasoconstrictor. DHE has been used for more than 50 years for the treatment of migraine, but modern physicians rarely prescribe it because of significant side effects. More specifically, ergotamines and triptans are both vasoconstrictors with labels citing the risk of their use in migraine sufferers with risk factors for cardiovascular disease.

Opioids are often dispensed for migraine attacks in emergency departments; however, in the treatment guidelines referenced by the National Institutes of Health, their use is not recommended for the acute treatment of migraine. Opioid use for migraine is associated with increased disability and health care utilization. The U.S. Centers for Disease Control and Prevention has recognized the growing issue of opioid misuse, abuse and addiction and officially classified prescription opioid abuse as an epidemic. Data from a 2009 study conducted by the American Migraine Prevalence and Prevention Study suggests that about 16% of migraine patients are current opioid users and 16% of those patients are likely dependent.

Preclinical Evidence of nVNS Mechanism of Action in Acute Migraine

Although the cause of migraine is multifactorial, one validated model, shown in Figure 10 below, involves the activation of nerve fibers in the dura through a mechanism similar to the one previously described for CH. These fibers lie in close proximity to blood vessels passing through the dura, and connect through the trigeminal ganglion to the TCC. Excessive firing of the TCC involves the increased release of the excitatory neurotransmitter glutamate and is associated with migrainous pain. As in the case of CH, this activation is typically opposed by the release of inhibitory neurotransmitters, including serotonin, norepinephrine, and GABA. Migraine pain may be experienced when excessive firing from the TCC exceeds the inhibitory mechanisms, or if the inhibitory mechanisms are not present.

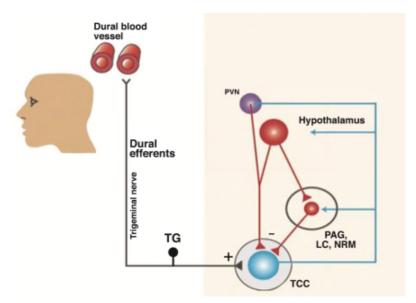


Figure 10: The neural circuit believed to be associated with migraine

(Figure adapted from S. Akerman and P. Goadsby, with permission)

To show the effects of nVNS, we sponsored a preclinical study at Thomas Jefferson University, published in 2014. In this study, animals were sensitized, rendering them allodynic, or sensitive to touch, and susceptible to increased pain when the known migraine trigger, nitroglycerine, or GTN, was administered. Previous research had shown significant increases in glutamate expression in the TCC, specifically in the trigeminal nucleus caudalis from GTN exposure. The results of our study, provided in Figures 11 and 12 below, showed that administration of nVNS simultaneously with, or 90 minutes after GTN was administered, reduced both the pain behavior and the over-expression of glutamate.

Figure 11: Co-administered nVNS prevents the significant increase in glutamate expression triggered by GTN in sensitized animals.

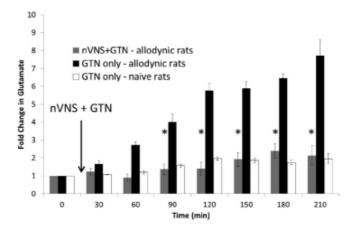
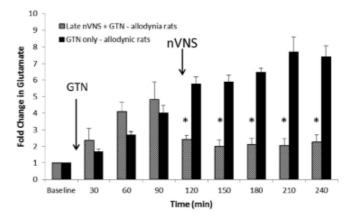


Figure 12: Administration of nVNS, 90 minutes after GTN reduces over-expression of glutamate that occurs in sensitized animals.

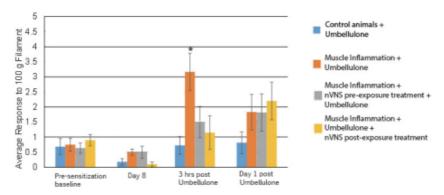


The pulsating character of migraine pain supports the inference of a relationship between activated nerve fibers and blood vessels that are in close proximity with one another. This pulsating feature, typically exacerbated by exercise, led early observers to suspect vasodilation as an underlying cause. As previously mentioned, triptans, which are vasoconstrictors, are the most widely prescribed medications for the acute treatment of migraine. Further, over the past decade, research in headache has included a focus on calcitonin gene-related peptide, or CGRP, which is a peptide released by neurons under a variety of stress conditions. CGRP is the most potent, endogenously produced vasodilator. The administration of exogenous CGRP in sensitized animals and human migraineurs has been shown to trigger pain-related behavior and migraines.

Models of CGRP activity in migraine suggest that neurons releasing CGRP in the TCC result in the activation of pain pathway neurons, leading to acute headache pain. While several stresses can cause the release of CGRP, the inflammatory cytokine tumor necrosis factor alpha, or TNF-a, is known to trigger its synthesis and release from neurons. Heightened expression of TNF-a has been correlated with heightened expression of CGRP as well as its receptors. As previously mentioned, published results of multiple studies show that VNS is capable of suppressing TNF-a in the central nervous system.

To further study the effects of our gammaCore therapy in migraine, and specifically as it relates to CGRP, we sponsored a series of studies in which animals were sensitized by chronic inflammation. These animals experience migraine-like pain upon exposure to a known migraine trigger, umbellulone. The results of this study, as shown in Figure 13 below, demonstrated that nVNS reduces pain responses of sensitized animals relative to that of naïve animals, whether the therapy is delivered before or after the trigger is administered.

Figure 13: Administration of nVNS after umbellulone exposure reduces pain-associated behavior in inflammation-sensitized animals.



In addition to the reduction in pain, nVNS reduced the expression of intracellular biomarkers of inflammation. These biomarkers are associated with an upregulation in TNF-a, and correspondingly, in CGRP synthesis and expression.

Clinical Data in support of gammaCore for Acute Migraine Treatment

We have completed one pilot and one pivotal trial examining the efficacy, safety and tolerability of gammaCore for the acute treatment of migraine headache as summarized in Table 6 below:

Table 6: Overview of Our Acute Migraine Trials for gammaCore

Trial	Phase	Enrolled Patients (n)	Design	Date Published
Acute Treatment	Pilot	30	Open label, single-arm, multiple-attack trial	2014
PRESTO	Pivotal	285	Multi-site, randomized, double- blind, parallel-group, sham-controlled	2017

Our First Open Label Trial in Acute Migraine

We sponsored a multi-center, pilot clinical trial to investigate the use of gammaCore for the acute treatment of migraine headache, published in 2014. The trial was an open-label, single-arm, multiple-attack trial conducted at four headache centers in the United States. Patients were asked to treat up to four acute migraine attacks with gammaCore over a six week period. The trial enrolled 30 patients, 25 of whom were female and 27 of whom treated at least one attack.

Nineteen of the 27 patients treated their first attack at a pain level that was moderate or severe at baseline. Four of these 19 patients (21%) reported being pain free at two hours. Nine of 19 patients (47%) reported pain relief, defined as mild pain or pain free, at the same time point. The eight remaining patients treated their first attack while at mild pain at baseline, five of whom (63%) were pain free at two hours. Overall, these 27 patients treated 80 migraines, 54 of which were treated with a baseline pain level of moderate or severe. Twelve of 54 attacks (22%) were reported as pain free at two hours, and 23 of 54 attacks (43%) reached pain relief. The remaining 26 attacks were treated at mild pain, and pain freedom was achieved for 10 of these attacks (38%). The efficacy results from this trial are similar to other acute treatments for migraine.

This pilot trial demonstrated gammaCore is well tolerated in patients with acute migraine. Adverse events were of mild severity, transient in duration, and included local discomfort during and after gammaCore use, as well as mild skin reactions to the conductive gel. Based on the results of this trial, the authors noted that gammaCore seemed better tolerated than triptan medications and did not appear to have the cardiovascular or cerebrovascular risks associated with them.

The PRESTO Trial — Our Registration Trial for the Acute Treatment of Migraine

Our PRESTO trial, or PRESTO, was a pivotal, randomized, double-blind, sham-controlled prospective trial of gammaCore for the acute treatment of migraine. The trial enrolled 285 patients and was conducted at 10 centers in Italy, including academic medical centers and other tertiary headache clinics. PRESTO was designed to assess the superiority of our gammaCore therapy in comparison to sham treatment and included three four-week periods: (1) a run-in period; (2) a double-blind period; and (3) an open-label period. Patients treated up to five migraine attacks with gammaCore or sham in the double-blind period and up to five additional attacks with gammaCore in the open-label period. The primary endpoint for the trial was response rate, defined as the proportion of patients who achieved pain freedom at 120 minutes after treatment initiation for the first migraine treated. Investigators, patients, and study coordinators were blinded to treatment assignments in the double blind phase of the trial.

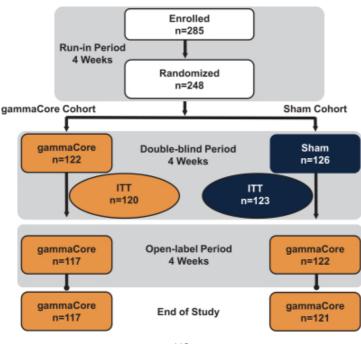


Figure 14: PRESTO Trial Consort Diagram

As shown in Figure 14 above, 285 patients were enrolled into the run-in period of PRESTO, 248 of whom were eligible for randomization into the double-blind period. 37 patients did not randomize, the majority of whom failed to meet the entry criteria for randomization. 243 of the 248 enrolled patients treated at least one attack and represent the ITT population (gammaCore, n=120; sham, n=123). Of the ITT population, 239 entered the open label period, and 238 finished the open label period. Demographic and baseline characteristics were generally well balanced between the gammaCore and sham cohorts, however, clinically relevant trends were observed with respect to preventative medication use and pain level at baseline. A higher proportion of patients in the gammaCore cohort treated their first attack when its intensity was severe.

As shown in Figure 15 below, the proportion of patients in the gammaCore cohort who became pain-free after treating the first attack was significantly higher than those who treated with sham at 30 minutes (gammaCore, 12.7%; sham, 4.2%; p=0.01) and 60 minutes (gammaCore, 21.0%; sham, 10.0%; p=0.02) but not at 120 minutes (gammaCore, 30.4%; sham, 19.7%; p=0.07; primary endpoint). A repeated-measures test, recommended by our independent statisticians, examined the inconsistency between the 120-minute finding and the 30- and 60-minute findings and demonstrated the statistical significance of gammaCore's superiority over sham for the pain-free outcome through 120 minutes (odds ratio: 2.3; 95% CI: 1.2, 4.4; p=0.01).

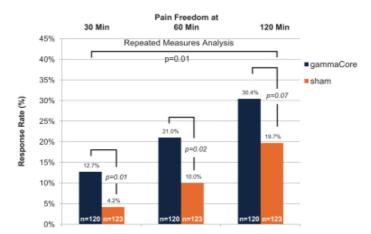
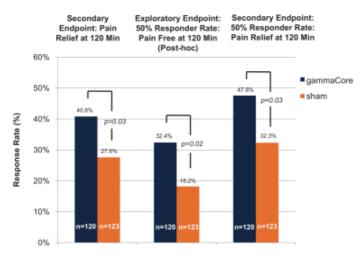


Figure 15: Primary Endpoint and Repeated Measures Analysis of the PRESTO Trial for Acute Migraine

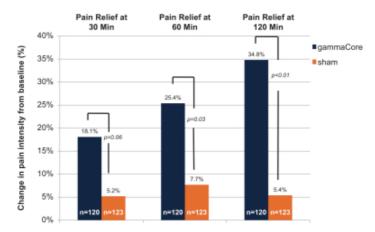
As shown in Figure 16 below, the proportion of patients who achieved pain relief, defined as mild or no pain, at 120 minutes was significantly higher with gammaCore than with sham for the first treated migraine attack (gammaCore, 40.8%; sham, 27.6%; p=0.03). The proportion of patients who responded at 120 minutes for 3 50% of their attacks was significantly higher with gammaCore than with sham for both pain freedom (gammaCore, 32.4%; sham, 18.2%; p=0.02) and pain relief (gammaCore, 47.6%; sham, 32.3%; p=0.03).

Figure 16: Selected Secondary and Exploratory Results of the PRESTO Trial for Acute Migraine



As shown in Figure 17 below, mean percentage pain reduction for the first attack was significantly greater with gammaCore than with sham at 60 minutes (gammaCore, -25.4%; sham, -7.7%; p=0.03) and 120 minutes (gammaCore, -34.8%; sham, -5.4%; p<0.01).

Figure 17: Percent Pain Relief Results of the PRESTO Trial for Acute Migraine



No SAEs were attributable to gammaCore in PRESTO. Of all patients, 18% (45/248) had ³1 AE during the trial. As shown in Table 7 below, the most commonly occurring device-related AEs of these were application site reactions, all of which were mild, transient, and tended to be self-limiting in nature. The PRESTO trial demonstrated gammaCore to have a highly favorable tolerability profile.

Table 7: Most Commonly Reported Device-Related ADEs from the PRESTO Trial

	All Study Periods		
	gammaCore (n=122)	Sham (n=126)	
ADEs Occurring in >1 Subject in Any Treatment Group, No. (%)			
Application site reactions (discomfort, pain, irritation)	3 (2.5)	7 (4.8)	
Dizziness	0	2 (1.6)	

Headache Prevention

The grant by FDA of our *de novo* application resulted in a new Class II regulatory category: external vagal nerve stimulator for headache. The establishment of this product category permits us to apply for label expansions through the 510(k) regulatory pathway utilizing our own product as the predicate. It is our intention to seek the expansion of our label for the prevention of both migraine and eCH. As described below, we have run, and continue to conduct, additional clinical studies which may support label expansion for the acute treatment and prevention of other primary and secondary headaches.

Cluster Headache Prevention

As described previously, CH is believed to be the result of stimuli from facial nerves that activate the TCC, and which are opposed by inhibitory neurotransmitters from key areas of the brainstem. Acute activation of these inhibitory mechanisms has been proposed as the basis for gammaCore's clinical efficacy in the treatment of CH attacks. The clustering of these attacks suggests a prolonged susceptibility of CH patients to loss of inhibition, or excessive activation. Prevention, therefore, may be possible by reducing the susceptibility of the circuit either by sustained elevation of baseline inhibition, or elimination of the stimuli activating the facial nerves.

In one model of CH, prolonged irritation of the facial tissue, which includes the sinus passages around the orbital socket, may cause activation of the facial nerves. Periodic inflammation of the sinuses may be related to the observed increase in episodic CH activity in the spring and fall, when allergens are more prevalent. Consistent with this mechanism, corticosteroids, like prednisone, have shown efficacy as a preventative treatment for patients entering a cluster bout. Unfortunately, because of the side effects of prolonged steroid use, steroids are typically only prescribed in short duration.

Currently Used Therapies for Cluster Headache Prevention and Their Limitations. There are currently no FDA approved medications for the prevention of CH, driving off-label use of medications, such as lithium, valproic acid and high-dose verapamil. These medications have unproven efficacy and the potential for significant health risks, including adverse cardiac events, organ toxicity and birth defects. As a result, patients are confronted with the difficult choice of continuing to suffer CH attacks unabated or to try treatments with uncertain clinical benefit and the potential for serious medical consequences.

Our PREVA Trial — gammaCore for Prevention and Acute Treatment of Chronic Cluster Headache

Our PREVA trial, or PREVA, was a prospective, multi-center, open-label, randomized, controlled, parallel-group trial of gammaCore for the prevention of cCH. The trial enrolled 114 patients with 97 patients randomized and was conducted at 10 sites in Europe, including academic medical centers and other tertiary headache clinics. PREVA was designed to assess the superiority of adjunctive use of our gammaCore therapy with standard of care medications in comparison to standard of care medication alone, and included three periods: (1) a two-week baseline phase during which all patients received only their individualized standard of care, or SoC, (2) a four-week randomized period during which participants were randomly assigned the adjunctive treatment or SoC

arms; and (3) a four-week open label period during which all participants received adjunctive gammaCore therapy. The primary endpoint for the trial was defined as the mean change from baseline in the number of weekly attacks in the third and fourth week of the randomized period compared with the average weekly attack rate in the baseline period.

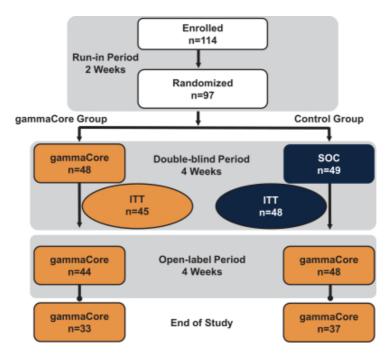
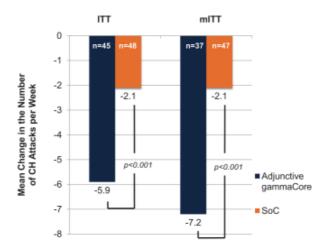


Figure 18: PREVA Trial Consort Diagram

As shown in Figure 18 above, in PREVA, 114 patients were enrolled and assessed at baseline, 97 of whom provided baseline data and were considered reliable trial participants. Of these patients, 93 met the criteria for inclusion in the ITT population having provided evaluable data (gammaCore, n=45; SoC, n=48). Of the ITT population, 92 provided data in the open-label period (gammaCore, n=44; SoC, n=48). Demographics and baseline characteristics were similar between these groups and were representative of the overall CH population. Use of SoC medications was also comparable between groups. A modified ITT, or mITT, population, defined to include only patients with measurable data across the respective study periods (gammaCore, 37/45; SoC, 47/48), was also provided in the primary publication of these data in 2016.

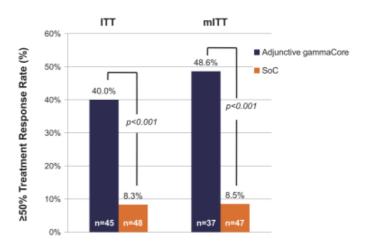
As shown in Figure 19 below, during the randomized period, participants receiving adjunctive gammaCore treatment had a significantly greater reduction from baseline in the number of CH attacks per week compared to those receiving SoC alone (gammaCore, -5.9; SoC, -2.1; p<0.02). In the mITT population, the therapeutic benefit was more pronounced in the adjunctive gammaCore cohort (gammaCore, -7.2; SoC, -2.1; p<0.001). To determine the efficacy of longer-term prophylactic use of gammaCore, the reduction in the number of CH attacks during the open label period was examined in the 30 patients who continued adjunctive gammaCore use through this period. These patients reported a statistically significant reduction of two CH attacks per week (p<0.001) compared with the randomized period, suggesting further benefit with continued adjunctive use of our therapy.

Figure 19: Primary Endpoint Analysis of the ITT and mITT Populations for the PREVA Trial



As shown in Figure 20 below, in the ITT population, a significantly higher proportion of the patients receiving adjunctive gammaCore treatment experienced a $^350\%$ reduction in CH attack frequency during the randomized period compared with the SoC cohort (gammaCore, 40.0%; SoC, 8.3%; p<0.001). Similarly, the response rate in the mITT population was also significantly higher for individuals receiving adjunctive gammaCore therapy (gammaCore, 48.6%; SoC, 8.5%; p<0.001), suggesting that patients who remained in the trial had greater response.

Figure 20: Responder Rate Analysis for the ITT and mITT Populations in the PREVA Trial



The use of abortive medications to acutely treat CH attacks was reported during all three periods of the trial. Changes in the use of acute medication are generally used as a surrogate for efficacy in preventing the occurrence of CH attacks. Reliable data on the use of abortive medications was only available in the mITT population. The number of times abortive medications were used in this population during the last two weeks of each trial period is shown in Figure 21 below. During the randomized period, the gammaCore cohort reported a statistically significant decrease of 61.1% (p<0.01) in the frequency of use of subcutaneous sumatriptan injections over the baseline period, whereas the SoC cohort reported an 10.3% increase in the use of this injected medication over

baseline. Changes in the use of high-flow oxygen showed a similar difference in favor of adjunctive gammaCore use in that the reduction in its use among the gammaCore cohort was 62.4% (p=0.02) compared with only a 14.3% reduction in the SoC cohort. Similar results were seen in the open-label period.

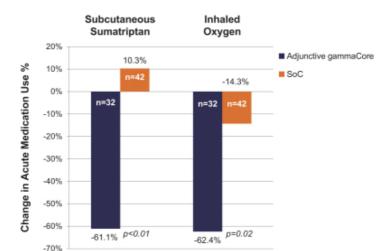


Figure 21: Change in Abortive Medication Use for the mITT Population in the PREVA Trial

In our PREVA trial, no SAEs were attributable to gammaCore. During the two months of treatment, similar proportions of participants in the gammaCore cohort and SoC cohort (gammaCore, 52%; SoC, 49%) reported AEs. Most AEs were mild or moderate (93% (108/116)). Overall, as shown in Table 8 below, the most common AEs were CH attacks (gammaCore, 1; SoC, 5), along with nasopharyngitis, dizziness, oropharyngeal pain, and neck pain.

Table 8: Most Commonly Reported AEs from the PREVA Trial

	gammaCore (n=48)	Control (n=49)
ADEs Occurring in ≥ 5% Subjects in Any Treatment Group, No. (%)		
CH	1 (2)	5 (10)
Dizziness	3 (6)	3 (6)
Headache	4 (8)	1 (2)
Nasopharyngitis	1 (2)	4 (8)
Oropharyngeal pain	3 (6)	1 (2)
Neck pain	3 (6)	0

In summary, this trial met its primary endpoint by demonstrating that daily adjunctive prophylactic use of our gammaCore therapy significantly reduced the number of CH attacks per week, which led to substantial reductions in abortive medication use.

Prevention of Migraine

At sufficient exposure, migraine triggers such as lack of sleep, low oxygen levels and toxins, like alcohol, are capable of causing headaches. Some individuals experience migraine attacks after modest exposure to these and other triggers. When identifiable, avoidance of such triggers is a staple technique for migraine prevention.

Despite trigger identification and employment of a corresponding avoidance strategy, there remains a high unmet need among migraineurs for safe and effective preventative therapies. According to the U.S. Agency for Healthcare Research and Quality, only about 12% of adults with high frequency or chronic migraine take preventive medications. According to the American Migraine Foundation, medication side effects often limit the use of migraine medications.

Currently Used Therapies for Migraine Prevention and Their Limitations. Five products are currently approved by the FDA for the prevention of migraine: anti-epileptic drugs, topiramate (Topamax) and valproic acid (Depakote), beta-blockers, propranolol (Inderal) and timolol (Blocadren), and BOTOX. BOTOX is the only product that has been approved by the FDA for the prevention of chronic migraine, and its label is limited to that subgroup. In all cases, these medications were first approved for other uses.

These current treatments are ineffective or inconvenient for many patients, and their use has been limited by issues with tolerability and side effects, including cognitive impairment, nausea, fatigue and sleep disturbance. Anti-epileptic drugs are also associated with poor pregnancy outcomes and fetal abnormalities, which is a concern for women of childbearing years. In clinical trials, these medications require four to six weeks of daily administration before most patients experience measurable clinical benefit. For example, BOTOX requires approximately 31 subcutaneous injections at various sites on the head and neck, repeated every 12 weeks.

We believe there is a need for a new therapy that can either prevent migraines or reduce their severity to a level at which supplemental existing abortive therapies can provide relief as needed, with reduced side effects. Such a therapy could provide benefit for both patients on existing therapies and patients who have abandoned therapy.

Mechanisms of Action Evidence Supporting gammaCore Use in Migraine Prevention

Approximately 25% of all migraine patients experience sensory symptoms known as "aura" prior to the pain stage of at least a portion of their migraine attacks. Aura is characterized by visual symptoms, most frequently, or by other symptoms associated with synchronized depolarization in the brain. This synchronized depolarization, referred to as cortical spreading depression, or CSD, is believed to occur more readily when the brain is in a hyperexcitability state. Based on their ability to reduce brain hyperexcitability, several anti-epileptic drugs are used for the prevention of migraine.

To investigate the effects of VNS, which was first used clinically in epilepsy, on hyperexcitability, we sponsored a series of pre-clinical studies at the Massachusetts General Hospital. The results, published in 2016, showed that our gammaCore therapy rapidly increased the thresholds for triggering CSDs, and reduced brain hyperexcitability. In contrast to the chemical medications mentioned above, a two-minute dose of our therapy was able to multiply by approximately 2.5 times the intensity of the trigger required to initiate CSDs within 20 minutes of initial treatment. This compares favorably to drug treatments that require weeks to months of daily administration, often with associated side effects, before achieving clinical benefit.

Recently published genetic and epigenetic studies suggest a strong association between migraine and genes tied to severe inflammatory conditions. These findings, coupled with recent breakthroughs in our understanding of how the immune system affects the expression of neurotransmitters, CGRP, and their receptors, may enhance our explanations of how hyperexcitability arises. To further this understanding, we sponsored studies in which prolonged inflammation was used to sensitize animals to respond to migraine triggers.

In this work, twice-daily gammaCore treatments, administered during the prolonged inflammation period, inhibited sensitization. Animals treated with gammaCore were indistinguishable from a non-sensitized animal group in their lack of response to the migraine trigger, which contrasted with the sensitized group not treated with gammaCore, which responded with pain behavior. Brainstem tissue from the untreated, sensitized group was analyzed, and showed evidence of CGRP synthesis, as well as a greater number of actual CGRP vesicles. In contrast, both non-sensitized animals and gammaCore-treated animals exhibit normal intracellular biomarkers of CGRP synthesis and normal levels of CGRP vesicles. Further tissue analysis revealed that pain pathway neurons in sensitized animals exhibited elevated expression levels of CGRP receptors. In contrast, the non-sensitized and the gammaCore-treated animals showed no elevation in CGRP receptor populations.

We believe these preclinical studies provide mechanistic support for the development of gammaCore for the prevention of migraine.

Clinical Data in Support of gammaCore for Migraine Prevention

Our EVENT Trial - Chronic Migraine Headache Prevention with gammaCore

Our EVENT trial was a multi-center, randomized, sham-controlled pilot clinical trial with respect to the use of our gammaCore therapy for the prevention of chronic migraine and was published in 2016. This prospective double-blind pilot trial was conducted at six tertiary care headache centers in the United States. The trial included three consecutive periods: (1) a one-month baseline period during which patients provided data regarding their frequency of headache attacks to serve as a baseline comparator; (2) a two-month, randomized, sham-controlled period during which patients received prophylactic treatment with gammaCore or a sham; and (3) a six-month open-label period during which all patients received gammaCore. The primary objective of the EVENT trial was to assess the feasibility, safety, and tolerability of our gammaCore therapy, and as such, was not powered to reach statistical significance with respect to any efficacy measures. The trial enrolled 59 patients.

At baseline, the mean number of headache days in the gammaCore cohort (n=30) was 20.8 and 22.0 for the sham cohort (n=29). At the conclusion of the randomized period, the gammaCore cohort had experienced an average reduction of 1.4 migraine days while the sham cohort experienced a 0.2 migraine day decrease. The mean change from baseline was not statistically significant between groups. A per protocol cohort was identified in whom the mean migraine day reductions for the gammaCore and sham cohorts were 2.0 and 0.1, respectively.

During the open-label period, the original gammaCore cohort experienced continued reductions in migraine days. In this period, patients in the sham cohort gained access to gammaCore and began to show improvement. The data from this trial demonstrated that continued use of our gammaCore therapy provides increased benefit. A *post hoc* completers analysis demonstrated statistically significant and clinically meaningful reductions from baseline at the conclusion of the trial in both cohorts (initial gammaCore randomization cohort, 8.0 migraine-day reduction; initial sham randomization cohort, 6.0).

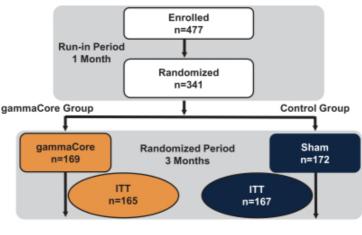
The primary purpose of this trial was safety and tolerability. Our gammaCore therapy was well tolerated and mild to moderate adverse events were generally similar in both groups.

The PREMIUM Trial - Our Registration Trial for the Prevention of Migraine

Our PREMIUM trial, or PREMIUM, is a pivotal, randomized, double-blind, sham-controlled prospective trial of gammaCore for the prevention of migraine. The trial was conducted at 22 centers in Europe, included academic medical centers and other tertiary headache clinics, and enrolled 477 patients into a 28-day baseline run-in period, 341 of whom are included in the safety population and 332 of whom are included in the ITT population. PREMIUM was designed to assess the superiority of our gammaCore therapy in comparison to sham treatment and included three distinct periods: (1) a 28-day run-in period; (2) a three-month double-blind period; and (3) a six-month open-label period. PREMIUM has progressed through both the randomized and open-label study periods.

Unless otherwise specified, the data presented herein below relate to the randomized period only and are the result of preliminary analytics performed by our independent third-party statisticians. Patients were instructed to treat themselves with two 120-second doses of gammaCore therapy or sham treatment, twice per day. Patients randomized to the sham treatment were offered the opportunity to use gammaCore during the open-label period. The primary endpoint for the trial is a reduction in the average number of migraine days per month during the third month of the randomized period compared to the average number of migraine days per month in the baseline period between the two cohorts. Investigators, patients, and study coordinators were blinded to treatment assignments in the double blind phase of the trial.

Figure 22: PREMIUM Trial Consort Diagram

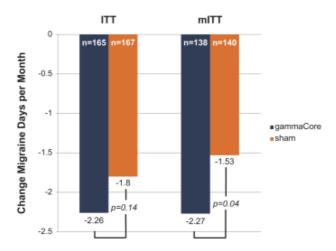


End of Randomization Period

As shown in Figure 22 above, in PREMIUM, all patients randomized (gammaCore, n=165; sham, n=167) represent the ITT population. Of these patients, 278 (gammaCore, n=138; sham, n=140) complied with the trial requirement to self-administer no fewer than two-thirds of the specified treatments per month during the randomized period. This population represents an mITT. Demographic and baseline characteristics were generally well balanced between the gammaCore and sham cohorts.

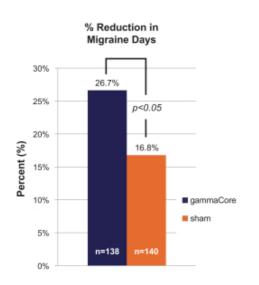
For the ITT and mITT populations, the baseline average number of migraine days per month was similar between the two cohorts (gammaCore, 7.94 and 8.06, respectively; sham, 7.80 and 7.78, respectively). The primary endpoint was not met for the ITT population (gammaCore, -2.26; sham, -1.80; p=0.15; linear regression). However, as shown in Figure 23 below, statistical significance was achieved in reduction of migraine days per month, the primary endpoint metric, for the mITT population (gammaCore, -2.27 migraine days; sham, -1.53 migraine days; p=0.04; linear regression).

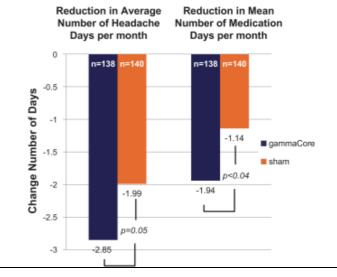
Figure 23: Primary Endpoint Analysis of the ITT and mITT Populations for the PREMIUM Trial



As shown in Figures 24 and 25 below, with respect to key secondary and exploratory endpoints, statistical significance was achieved across several measurements in the mITT population. As shown in Figure 24 below, the average percentage reduction in migraine days per month among the mITT population was greater for the gammaCore cohort compared with sham (gammaCore, 26.7%; sham, 16.8%; p<0.05). As shown in Figure 25 below, the reduction in the average number of headache days per month among the mITT population was greater for the gammaCore cohort compared with sham (gammaCore, -2.85; sham, 1.99; p=0.05). The mean reduction in days on which medication was required was statistically significant greater in the gammaCore cohort as compared with sham among the mITT population (gammaCore, -1.94; sham, -1.14; p<0.04). While not reaching statistical significance, the proportion of patients experiencing at least a 50% reduction in migraine days per month demonstrated a trend toward significance consistent with the previously reported endpoints (gammaCore, 31.6%; sham, 22.1%; p<0.08).

Figures 24 and 25: Additional Secondary and Exploratory Endpoint Analysis for the PREMIUM Trial





In our PREMIUM trial, no SAEs were attributed to gammaCore. Of all randomized patients, 25.8% (88/341; gammaCore, 31/169; sham, 57/172) had ³ to 1 ADE during the trial. As shown in Table 9 below, the most commonly occurring ADEs were application site irritation, all of which were non-serious, transient, and tended to be self-limiting in nature. The PREMIUM trial demonstrated that our gammaCore therapy for acute migraine treatment has a highly favorable tolerability profile.

Table 9: Most Commonly Reported ADEs from the PREMIUM Trial

	Randomized Period		
	gammaCore (n=169)	Sham (n=172)	
ADEs Occurring in >1 Subject in Any Treatment Group, No. (%)			
Application site reactions	3 (1.8)	7 (4.1)	

Data from the recently completed open-label period of the PREMIUM trial was generally consistent with the earlier results from the randomized period with continued reductions in the number of migraine and headache days per month, as well as an increase in the number of subjects who had 50% reduction in the number of their monthly migraine days compared to when they started the trial. Non-invasive vagus nerve stimulation continued to enjoy a highly favorable safety and tolerability profile. We expect to present full data from the PREMIUM trial at a medical congress before the end of 2018.

Additional Headache Opportunities

Migraine in Adolescents. Peak migraine penetrance occurs during adolescence and parents may be hesitant to place children on medication. Our clinician advisors have indicated their belief that our gammaCore therapy would be particularly well received in this population given its tolerability profile. We are currently partnered with opinion leaders from academic medical centers and other tertiary headache centers to develop a clinical trial that we expect to initiate in the second half of 2018 to support a label expansion for gammaCore to include patients as young as 12 years of age.

Post-Traumatic Headache. Unlike migraine and CH, which are primary headaches, Post-Traumatic Headaches, or PTH, are classified as secondary headaches because they have a clear causation associated with head trauma. Research has shown that head trauma activates immune cells in the central nervous system. This activation can lead to a disruption in neurotransmitter expression, hyperexcitation, and to the production of CGRP.

VNS, including gammaCore therapy, has been shown to be effective in reducing this immune cell activation. Our clinical and scientific advisors have indicated their belief that our gammaCore therapy has the potential to offer therapeutic benefit for this patient population. We are currently developing a clinical trial that we expect to initiate in the second half of 2018 to support a label expansion for gammaCore to include PTH.

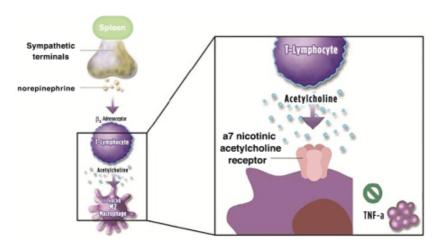
Our Pipeline

Rheumatology

The Anti-inflammatory Mechanisms of VNS

The systemic anti-inflammatory effects of VNS are believed to result from the activation of sympathetic fibers in the splenic nerve, through a connection at the celiac ganglion. These sympathetic fibers release norepinephrine into the spleen in close proximity to a specialized group of immune cells that release acetylcholine, or ACh. This release of ACh activates a receptor, the alpha 7 nicotinic ACh receptor, or a7nAChR, on cytokine-releasing immune cells called macrophages. Activation of these receptors is believed to function by blocking transcription factors that promote inflammatory cytokine expression. Based on the role of ACh in activating this pathway, which is shown in Figure 26 below, it has been termed the cholinergic anti-inflammatory pathway, or CAP.

Figure 26: The Cholinergic Anti-Inflammatory Pathway



Sjögren's Syndrome

Paralleling our market penetration strategy in headache, we have chosen to enter rheumatology in Sjôgren's syndrome, a condition with high unmet need and no currently approved disease modifying treatments. We believe that further expansion into other areas of rheumatology from this base of relevance among clinicians will maximize our ability to penetrate areas like rheumatoid arthritis.

Sjögren's syndrome is a chronic inflammatory condition characterized by damage to, and ultimate loss of, moisture-producing glands. The primary clinical consequence of this damage is dry mouth and dry eyes, which can cause significant tooth loss and ocular injury. Related similar symptoms can include dry skin, a chronic cough, and vaginal dryness. Primary Sjögren's syndrome, defined as being independent of other rheumatologic conditions, affects approximately 600,000 people in the United States, primarily women. Secondary Sjögren's syndrome arises in conjunction with other inflammatory conditions, and increases the number of Sjögren's sufferers to approximately four million people in the United States.

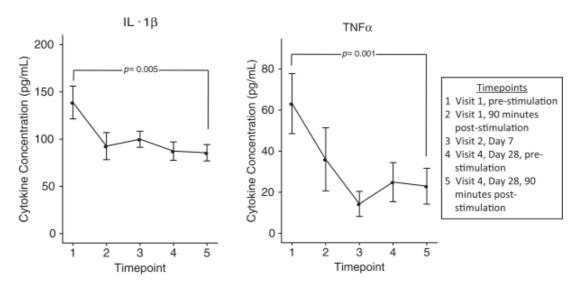
It is believed that the disease begins with increased inflammatory cytokine levels of interleukin-1 beta, or IL-1ß. The elevated level of IL-1ß is believed to be the underlying cause of the debilitating fatigue and sleepiness, symptoms that are often the cause of the greatest loss in quality of life among Sjögren's patients. This fatigue is a symptom of what is referred to as cytokine-induced sickness behavior.

Sickness behavior is a coordinated set of behavioral changes associated with extended periods of inflammation, including inability to concentrate, lethargy, malaise, fatigue, sleepiness, hyperalgesia, depression, and anxiety. These symptoms are common across many conditions in rheumatology.

An initial open label pilot trial of gammaCore for the treatment of primary Sjögren's syndrome was funded by the U.K. Arthritis Foundation, the results of which were recently presented at the 2017 American College of Rheumatology annual meeting. This trial enrolled 15 patients, all of whom provided evaluable data. At the beginning of this trial, enrolled patients provided baseline self-assessments of multiple key symptoms of their condition and blood samples were taken to establish baseline cytokine and other biomarker expression levels. During this first visit, patients were treated with gammaCore and additional blood samples were taken 90 minutes after this initial treatment. Patients were instructed to self-administer gammaCore twice daily, each treatment comprising two doses. Patients returned after seven days to provide self-assessments and additional blood samples. Patients continued this treatment protocol through a total of 26 days. On day 28, after a two-day treatment hiatus, patients provided self-assessments of their symptoms and additional blood samples both before, and 90 minutes following a final gammaCore treatment.

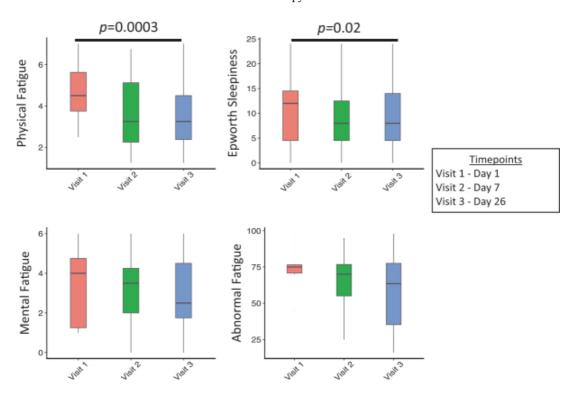
As shown in Figure 27 below, cytokine levels of both IL-1ß and TNF-a were significantly reduced from timepoint 1, or baseline, to timepoint 2, 90 minutes following their first treatment with gammaCore. The levels of these cytokines remained at these reduced levels, or lower, at timepoint 3, which was their day seven visit, and timepoints 4 and 5, both of which occurred at their day 28 visit (both before and after their final gammaCore treatments).

Figure 27: Reductions in IL-1ß and TNF-a from baseline through Day 28 in Sjögren's syndrome patients using gammaCore therapy.



As shown in Figure 28 below, the clinical results from this open-label pilot trial demonstrated statistical significance for reductions in physical fatigue and sleepiness, and trends toward significance for mental fatigue and abnormal fatigue.

Figure 28: Reductions in key fatigue and sleepiness measurements from baseline through Day 26 in Sjögren's syndrome patients using gammaCore therapy.



We are currently preparing for a pre-investigational device exemption, or IDE, meeting with the FDA to gain clarity regarding a pivotal trial design that could support an application for a labeling claim for the signs and symptoms of Sjögren's syndrome, and confirm that the FDA's review of such an application would proceed through the *de novo* pathway.

Rheumatoid Arthritis

Rheumatoid arthritis, or RA, is a chronic autoimmune disorder primarily affecting joints, and in particular the synovial tissue within the joint capsule. The condition is characterized by observable inflammation in the synovial tissue of affected joints, with associated warmth, swelling, pain, and loss of function around the inflammation. Symptoms typically worsen following rest. The most commonly affected areas include smaller joints of the body such as the wrists, hands, and feet, and typically affects the same joints on both sides of the body.

Uncontrolled RA is associated with significant morbidity and increased mortality. The current standard of care involves treating patients early and aggressively to prevent, or significantly retard the progression of joint damage. This is important, as progression of joint damage is directly correlated with debility, disability and loss of function. Approximately 2.4 million patients, predominantly women, suffer from RA in the United States. Current treatments for RA have been shown to possess a disease modifying effect, in addition to being effective at controlling signs and symptoms. Some agents used in the treatment of RA, most notably the biologics have shown effectiveness in the treatment of psoriatic arthritis and ankylosing spondylitis.

Inflammatory cytokines have long been identified in the pathogenesis of RA. Medications that inhibit immune activity, either broadly, like corticosteroids, or biologic agents, specifically targeting individual

cytokines, have been key treatment options for RA patients. Typically, patients with RA initiate treatment with methotrexate, or MTX, which is sufficient to arrest the disease progression and provide relief of the disabling symptoms in approximately 25% of the affected population. Despite being generically available, the average cost of chronic MTX treatment in the United States still averages greater than \$200 per month.

Incomplete response to MTX requires additional therapy, typically in the form of a biologic treatment, the most common of which are antibodies or antibody-like proteins that bind to TNF-a. By targeting TNF-a, these treatments alter the normal functioning of the immune system, and as such carry significant risks related to opportunistic infections and several forms of cancers. Approximately 40% of patients with RA are successfully treated with this class of medications, but at an average cost of \$30,000 per year. Estimates suggest that of the more than \$30 billion of annual global sales of these medications, sales for RA and related conditions of ankylosing spondylitis and psoriatic arthritis exceed \$15 billion.

Those patients who are inadequately managed by MTX and/or anti-TNF-a agents, typically advance to other biologic agents that attempt to either block the circulating levels of other target inflammatory cytokines, or block the intracellular pathways that promote the production of inflammatory cytokines. The latter includes the Janus kinase inhibitors, such as Xeljanz, which have an annual cost currently ranging from \$40,000 to over \$60,000.

Initial clinical evidence for the use of VNS in RA was published in 2016 reporting on an open label pilot trial of implanted VNS among a group of 17 RA patients who had failed standard of care therapy (7 MTX incomplete responders and 10 who had failed at least two biologic agents). As shown in Figure 29 below, the results of this trial demonstrated clinical improvement in disease activity score, or DAS28, over a six-week period of about 2.5 points in MTX incomplete responders and about 1.5 points in biologic failures greater than 1.5 points. Patients had their VNS therapy deactivated for a two-week period following the initial six-week treatment period, during which time DAS28 scores rapidly returned to prior activity levels. This trend reversed and trended towards improvement when VNS therapy was re-initiated.

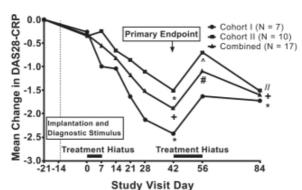


Figure 29: Mean change in DAS scores reported following implantation of and activation of VNS devices.

We are currently preparing for a pre-IDE meeting with the FDA to confer with its reviewers regarding a multi-center, randomized, double blind, sham-controlled trial of gammaCore therapy for the treatment of RA and to confirm that the FDA's review of such an application would proceed through the *de novo* pathway for a signs and symptoms labeling claim. As our potential trials progress, we may, at the appropriate time, conduct premarket activities in rheumatology, such as market analysis, physician and patient segmentation research, and promotional and campaign development.

Manufacturing

We are the FDA-registered manufacturer of our gammaCore products. We rely upon third-party suppliers, located both within and outside the United States, for substantially all of the component parts of gammaCore, including injection molded housings, printed circuit board assemblies, batteries, electrodes and conductive gel.

At our facility in Basking Ridge, NJ, we inspect the component parts following receipt to ensure they meet their design specifications. This quality inspection involves physical measurements and electrical performance testing. After successful completion of this inspection, our proprietary software is loaded into the microcontroller located on the printed circuit board. The battery and electrodes are connected to the printed circuit board, which is then placed in a plastic housing. The gammaCore is then configured to deliver the number of days of therapy to be prescribed, and a final test is performed on the unit to ensure it meets our performance specifications. The unit is then packaged, along with appropriate labeling, instructions for use and conductive gel, and shipped into our distribution network.

We currently have sufficient capacity to meet anticipated demand for our therapy for the foreseeable future. As demand rises, we may choose to maximize operating efficiencies by transferring manufacturing to one or more company-approved contract manufacturers. We are currently evaluating potential third-party manufacturers; however, we do not anticipate such a transfer will occur prior to 2019.

In order to protect against the risk of supply chain disruption, we are qualifying alternative vendors and suppliers to ensure timely access to components necessary for the manufacture and assembly of our gammaCore products. We will also retain the expertise and capabilities to fulfill our commercial product needs internally, if necessary. These measures include purchasing a sufficient advanced supply of key components to reasonably assure that no component shortages will interrupt our ability to manufacture and deliver our products to patients on a timely basis.

The generation of our proprietary signal does not require custom electronic components. Therefore, we believe long-term manufacturing, supply and quality agreements with our suppliers are not necessary as all the components used in our products are either high-volume, non-custom commodity components, or are readily available from multiple vendors. The majority of these components have multiple sources, and the few with single-sources have been purchased with sufficient reserves to permit continued production of our product should simple design modifications be required.

Coverage and Reimbursement

Commercial payors in the United States typically make coverage and reimbursement decisions with respect to new therapies based on three key factors: the strength of the therapy's clinical data; initial patient demand; and the absolute and relative cost of the therapy. Our payor engagement strategy was initiated 18 months prior to market entry, with pipeline presentations across the largest two-dozen commercial payors in the United States. We engaged with payors directly and through experienced consultants specializing in securing coverage and reimbursement. Many of these payors have indicated that we should advocate for reimbursement of our product as a pharmacy benefit. This pathway may allow patients to obtain our therapy through payment of a co-payment rather than being personally responsible for the costs of our product until meeting an annual deductible. The pathway may also permit payors to manage utilization of gammaCore through different tiers of coverage requiring varying co-pay amounts, prior authorizations, and requirements that patients fail less expensive treatments before gaining access to more expensive therapies. While some commercial payors may provide coverage under their pharmacy benefit plans, other payors, including governmental and private insurers, may not be willing or authorized to provide coverage for our therapy under pharmacy plans that more commonly cover prescription drug products. These payors may require us to seek coverage for gammaCore as a medical supply or item of durable medical equipment, which could result in the application of different pricing, reimbursement, and patient cost-sharing policies to our products.

Our strategy has been to gain early access for the narrowly defined market of CH where patients have only one other FDA-approved commercially available acute treatment option. To address the key factors used to make coverage and reimbursement decisions, we provide payors published data from our multiple clinical trials. Our commercial product registry is designed to generate patient demand in the form of prescriptions submitted to the payors. In concert with this commercial registry, we have established a comprehensive publication program to highlight evidence of the high cost of CH patients and to support the use of gammaCore as a cost-effective treatment option. To demonstrate this, we hired a pharmacy benefit management company that reviewed data from four of its regional health plans, totaling 2.5 million members. This review revealed that pharmacy costs for CH patients were double that of patients in a matched group of non-CH sufferers, and were 2.3 times more likely to be prescribed an opioid. However, many third-party payors do not currently cover our products because they have determined gammaCore and other non-invasive VNS treatments to be experimental or investigational.

In addition, the U.S. government, state legislatures and foreign governments have continued implementing cost-containment programs, including price controls and restrictions on coverage and reimbursement. Adoption of price controls and cost-containment measures, and adoption of more restrictive policies in jurisdictions with existing controls and measures, could limit our net sales and results. Decreases in third-party reimbursement for our products or decisions by third-party payors to not cover our products could reduce physician utilization of our products and have a material adverse effect on our sales, results of operations and financial condition.

As part of our broad payor engagement strategy we are seeking to secure pharmacy benefit reimbursement for our therapy by working with both commercial payors and pharmacy benefit managers, also known as PBMs. PBMs are third party groups who manage the pharmacy benefits offered by the commercial payors. In the U.S. market, there are three major large PBMs. We have entered into an agreement with one of these major PBMs, which manages approximately 60 million U.S. lives. Pursuant to this agreement, gammaCore will be covered, depending on the commercial payor that the PBM serves, and the specific plan, for commercially covered U.S. patients, as either a preferred brand or non-preferred brand. As a preferred brand, or Tier 2 product, the coverage would require a monthly copayment paid by the patient of approximately \$30. As a non-preferred brand, considered a Tier 3 product, the monthly copayment would likely be between \$60 and \$75. Under this agreement, we anticipate, based on our estimates, that approximately 15 million U.S. commercial lives will shortly have access to our therapy as either a Tier 2 or Tier 3 product, and we anticipate this number will grow to at least 45 million lives under this agreement over the coming quarters as we, together with this PBM, engage with additional commercial payors to position our product across the payors' plans. The strategy of engaging with payors and PBMs is continuing as we engage the other major PBMs and payors towards the goal of increasing patient access to our therapy.

Commercialization

Our commercial strategy will initially focus on the following priorities:

- Drive advocacy of gammaCore as a leading headache therapy. Our strategy is to establish gammaCore as a preferred treatment option, initially in eCH and expanding into migraine.
 - We are developing advocacy for gammaCore among key opinion leaders, who are well-known or emerging leaders in the areas of headache and neurology, through our clinical program and initial product registry. We currently have in excess of 300 clinicians trained on gammaCore use and over 600 unique prescribers. Of these, 50 are key opinion leaders who are compensated by us on a per diem basis pursuant to one-year agreements to lead a series of programs to educate their colleagues on our clinical data and our specialty pharmacy distributor and its network of specialty pharmacies. Through the second quarter of 2018, we have scheduled 50 peer-to-peer educational programs, which will be led by these key opinion leaders. An additional 150 such programs are scheduled for the third and fourth quarters of 2018.
 - We established our proprietary gammaCore product registry in July 2017 to enroll patients diagnosed with eCH. Through our registry, which we maintain, non-federal health care program

patients are offered two free months of gammaCore therapy and are asked to report their outcomes across quality of life criteria. At enrollment, patients report baseline information such as number of years living with eCH, time, duration and intensity of attacks. Patients also provide information regarding their medication usage prior to and during registry participation in conjunction with their use of gammaCore, their number of attacks treated with gammaCore, their number of stimulations with our therapy and the impact of our therapy on their pain intensity and duration. Because payors and physicians value real world data, we believe the registry data will aid in their assessment of gammaCore.

- **Drive reimbursement of our therapy**. Through our product registry and initial commercialization efforts we are generating prescriptions and patient claims to prompt commercial payors to initiate clinical review and subsequent reimbursement policies for gammaCore. We have engaged over 50 national and regional commercial insurance payors in the United States with the goal of obtaining reimbursement coverage as a pharmacy benefit. Agreements with commercial payors are in place that we believe, based on our estimates, will provide for reimbursement for gammaCore as a pharmacy benefit for approximately 17 million commercial lives, including a contract with a large PBM that we believe, based on our estimates, will initially cover 15 million commercial lives, with such number expected to increase over the next several quarters to as many as 45 million lives under such agreement. In addition, our access negotiations have entered the active clinical review stage with more than a dozen additional insurance plans covering approximately 120 million additional commercial lives.
- Build a leading commercial presence. Our sales force targets high-prescribing neurology practices and headache centers in the United States. Currently, our sales force consists of four regional business directors and 18 territory business managers. In addition, three medical science liaisons provide medical affairs support. We plan to hire an additional 14 territory business managers, who will ultimately cover 6,400 high-prescribers of headache medications and an additional two medical science liaisons. Based on the extent and nature of insurance coverage provided by payors for gammaCore, we may hire up to an additional 16 territory business managers for aggregate coverage of 9,600 prescribers.
- Leveraging a national specialty pharmacy distribution network. Through our specialty pharmacy distributor, we have access to an established national specialty pharmacy distribution network that provides physician and patient support to quickly onboard patients and manage payor interactions. This support includes adjudication of all gammaCore prescriptions, payor claims for reimbursement, and patient support and training. Our specialty pharmacy distributor is national in scope, supports the national shipping and dispensing of our therapy and has access to a network of hundreds of individual specialty pharmacists throughout the United States. This pharmacy network is scalable in size allowing for customized solutions to fit our distribution needs for the foreseeable future. It also has the capacity to adjudicate claims for reimbursement for our products from all commercial payors segments.

Our Proprietary gammaCore Ecosystem. We continue to focus on fostering advocacy among key opinion leaders and securing reimbursement policies with payors by leveraging the high unmet need in CH, setting the stage for our expansion into migraine. Consistent with this strategy, we have structured our distribution around a pharma-like model, forming an essential piece of our proprietary stakeholder-connecting ecosystem. This ecosystem engages patients, physicians, insurance providers, and our specialty pharmacy in a network that offers these stakeholders:

- *Physician ease of use.* Physicians can enter prescriptions through a web-based interface engaging our trained care specialists to register new patients;
- **Rapid prescription insurance adjudication.** These care specialists work with our specialty pharmacy distributor to accelerate the insurance adjudication process, contacting the physician and/or the patient if additional information is required;

- *Concierge patient engagement and personalized training.* The specialty pharmacy contacts the patient to obtain the co-pay, ships gammaCore directly to the patient's home, reviews the contents of the shipment with the patient on delivery, trains the patient on gammaCore use, and follows up within 48 hours to answer any additional questions the patient may have; and
- **Ongoing patient support.** Care specialists follow up with patients every month to answer any questions, remind them of refills, and support compliance with the therapy.

A key feature of the highly connected ecosystem we have constructed is our HIPAA-compliant, cloud-based data warehouse. The web portal feature of this network enables unprecedented engagement with patients through which we can provide training and educational material, and offer interactive diaries that provide us real-time feedback. This interactive experience will be expanded to engage with patients through their smart phones, informing them of key information such as the distance they are from their gammaCore and the time to their next dose or refill. In the future, we intend to incorporate additional features that may allow the smartphone to assist patients with identification and/or prediction of their risk factors and triggers. The portal is designed to promote patient engagement and the ability for the ecosystem to improve treatment outcomes.

The logistics of gammaCore distribution are significantly more efficient than that of traditional pharmaceutical therapies. Pharmaceutical therapies are typically distributed through a multi-tiered supply chain involving wholesalers, warehoused supply centers, and individual pharmacy branches, all of which separate the patient from the manufacturer.

By connecting our proprietary data warehouse directly to the specialty pharmacies that distribute our therapy, gammaCore's distribution eliminates several tiers of the traditional supply chain. Each gammaCore can be refilled electronically through the delivery of unique digital authorization codes, which are maintained in this cloud-based warehouse. We provide these codes to these specialty pharmacies by permitting them access to our database, and to the patient through RFID cards programmed by the pharmacists we have trained. More specifically, following adjudication of the prescription and securing payment or payor authorization, these trained pharmacists are granted access to our cloud-based system and program an RFID card, in real-time, using a tablet computer that we provide. This digital warehouse has the capability to provide refill authorization codes directly from the warehouse to the patient through Bluetooth technology, further increasing the ease and efficiency of prescription refills by eliminating the need for RFID cards.

An important limitation of the traditional pharmaceutical distribution model is that manufacturers can only track prescriptions through the purchase of data from a third party, which is typically several months old, making real-time responsiveness impossible. Our system captures real-time information regarding the patient, therapy usage, and refill status. All sales and marketing data are completely current, and available at a maximally granular level, enabling real-time decision-making. The build out of our specialty distribution channel will require specialized scanning hardware for use by our specialty pharmacy distributor and its network of specialty pharmacies, enhancements to our data warehouse including custom software, the training of specialty pharmacists who will distribute our therapy, and increased patient support for handling expected increases in patient volume. We also expect to create and develop patient and professional promotional tactics across multiple channels including social, digital, and print media.

In October 2016, we entered into a non-exclusive master services agreement for the provision of specialty pharmacy distribution services in the United States with Asembia LLC, or Asembia. Asembia provides us with access to its national network of specialty pharmacies and distribution services pursuant to one or more statements of work, or SOWs, arising under the agreement, including product stocking programs and integrated pharmacy dispensing systems, patient education and support, claims management and reimbursement assistance, professional compliance counseling and a patient hub services program with data capture and reporting capabilities. The agreement has an initial term of three years and is renewable automatically for successive one-year terms unless either party submits a termination notice at least 90 days prior to the end of the then-current

term. We may terminate the agreement or all or any part of any SOW at any time upon 90 days' written notice to Asembia. The agreement may also be terminated for cause upon written notice to the other party in the event of a material breach that is uncured for 30 days following written notice of such deficiency. The agreement provides for customary transitional services in those instances where we elect to use another service provider or our own employees to perform the services.

Competition

While we believe that our proprietary gammaCore therapy provides us with competitive advantages, we face potential competition from many different sources, including pharmaceutical, biotechnology and other healthcare companies. In addition, academic institutions, governmental agencies and public and private research institutions are actively conducting research in overlapping fields of interest. Our gammaCore therapy will compete with existing therapies and therapies that may become available in the future.

We believe the key competitive factors affecting the success of our therapy are its safety, efficacy, convenience, price, the availability of generic drugs and the availability of coverage and reimbursement from government and other third-party payors.

Many of the companies we are competing with now, or with which we may compete in the future, have significantly greater financial resources and expertise in research and development, manufacturing, preclinical testing, conducting clinical trials, obtaining regulatory approvals and marketing approved drugs than we do. Smaller or early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. These competitors also compete with us in recruiting and retaining qualified scientific and management personnel and establishing clinical trial sites and patient registration for clinical trials, as well as in acquiring technologies complementary to, or necessary for, our programs.

In primary headache, we face competition from companies that develop and/or sell the following types of treatments:

Treatments for Cluster Headache

The most frequently used acute treatments for CH attacks are subcutaneous sumatriptan and inhaled oxygen. Alternative treatments include intranasal triptans and intravenous DHE. Only subcutaneous sumatriptan and intravenous DHE are approved in the United States for the acute treatment of CH. There are currently no FDA-approved commercially available medications for the prevention of CH. Medications that are used off-label include verapamil, lithium, and valproate.

Treatments for Migraine

The most frequently prescribed therapy for the acute treatment of migraine are oral or nasal triptans. Additional prescribed products include prescription strength NSAIDs. Small molecule CGRP receptor agonists are currently in Phase 3 development by Allergan plc and Biohaven Pharmaceuticals Inc. for the acute treatment of migraines. Certain classes of anti-epileptic medicine and beta-blocker medications have been approved by the FDA for the prevention of migraine. There is currently only one therapy approved for the prevention of chronic migraine, BOTOX marketed by Allergan plc. There are currently three antibodies to CGRP and its receptor in Phase 3 development for the prevention of migraine by Alder Biopharmaceuticals, Inc. Teva Pharmaceutical Industries Ltd., and Eli Lilly and Company, with a fourth product developed by Amgen Inc., which is in a co-marketing partnership with Novartis International AG, approved by the FDA in May 2018. There are a number of medical devices that have been marketed for the treatment of migraine, including Cefaly and the Spring TMS device.

Intellectual Property

We actively seek to protect the intellectual property and proprietary technology that we believe is important to our business, which includes seeking and maintaining patents covering our technology and products, proprietary processes and any other inventions that are commercially or strategically important to the development of our business. We also rely upon trademarks to build and maintain the integrity of our brand, and we seek to protect the confidentiality of trade secrets that may be important to the development of our business. For more information, please see "Risk Factors—Risks Related to Intellectual Property."

Patents and Patent Applications

As of February 1, 2018, we held more than 140 patents and patent applications, including more than 70 issued U.S. patents, more than 25 U.S. patent applications, and more than 40 international patents and applications. All of our current issued patents are projected to expire between 2026 and 2033.

More specifically, our current therapy embodies a number of critical proprietary innovations, including a patented high-frequency burst signal that is capable of passing comfortably through the capacitance of the skin. In addition, our therapy utilizes a patented low pass filtration that substantially eliminates high frequency harmonics that would otherwise activate pain receptors in the skin. The combined result is a mild sensation that activates the target fibers in the cervical vagus nerve. While physically possible to administer electricity through the skin of the neck that will activate the same vagal fibers without these innovations, the intensity of pain receptor activation makes it virtually impossible to do so without causing unacceptably high pain levels.

Additionally, we have claims covering the methods of treating various headache conditions using our innovative therapy. We also have claims covering our innovative distribution capabilities, including the remote network-enabled communication for delivery of neuromodulation therapy for a broad range of medical conditions.

The term of individual patents depends on the legal term for patents in the countries in which they are granted. In most countries, including the United States, the patent term is generally 20 years from the earliest claimed filing date of a non-provisional patent application in the applicable country. We cannot assure you that patents will be issued from any of our pending applications or that, if patents are issued, they will be of sufficient scope or strength to provide meaningful protection for our technology. Notwithstanding the scope of the patent protection available to us, a competitor could develop treatment methods or devices that are not covered by our patents. Furthermore, numerous U.S. and foreign issued patents and patent applications owned by third parties exist in the fields in which we are developing products. Because patent applications can take many years to issue, there may be applications unknown to us, which applications may later result in issued patents that our existing or future products or proprietary technologies may be alleged to infringe.

There has been substantial litigation regarding patent and other intellectual property rights in the medical device industry. In the future, we may need to engage in litigation to enforce our issued patents, to protect our trade secrets or know-how, to defend against claims of infringement of the rights of others or to determine the scope and validity of the proprietary rights of others. Litigation could be costly and could divert our attention from other functions and responsibilities. Adverse determinations in litigation could subject us to significant liabilities to third parties, could require us to seek licenses from third parties and could prevent us from manufacturing, selling or using our gammaCore products, any of which could severely harm our business.

Copyrights, Trademarks and Trade Secrets

The software programs associated with gammaCore and our proprietary ecosystem are protected by U.S. copyright law.

As of February 1, 2018, our trademark portfolio contained six U.S. trademark registrations, including electroCore®, gammaCore® and gammaCore Sapphire®, four pending U.S. trademark applications and one registered European trademark, electroCore®.

We also rely upon trade secrets, know-how and continuing technological innovation, and may pursue licensing opportunities in the future, to develop and maintain our competitive position. We seek to protect our proprietary rights through a variety of methods, including confidentiality agreements and proprietary information agreements with suppliers, employees, consultants and others who may have access to proprietary information, under which they are bound to assign to us inventions made during the term of their employment or term of service.

Government Regulation

United States

Our products and operations are subject to extensive and rigorous regulation by the U.S. Food and Drug Administration, or FDA, under the Federal Food, Drug, and Cosmetic Act, or FFDCA, and its implementing regulations, guidance documentation, and standards. Our gammaCore products are regulated by the FDA as medical devices. The FDA regulates the design, development, research, testing, manufacturing, safety, labeling, storage, recordkeeping, promotion, distribution, sale and advertising of medical devices in the United States to ensure that medical products distributed domestically are safe and effective for their intended uses. The FDA also regulates the export of medical devices manufactured in the United States to international markets. Any violations of these laws and regulations could result in a material adverse effect on our business, financial condition and results of operations. In addition, if there is a change in law, regulation or judicial interpretation, we may be required to change our business practices, which could have a material adverse effect on our business, financial condition and results of operations.

Under the FFDCA, medical devices are classified into one of three classes—Class I, Class II or Class III—depending on the degree of risk associated with each medical device and the extent of control needed to ensure safety and effectiveness.

Class I devices are those for which safety and effectiveness can be assured by adherence to FDA's "general controls" for medical devices, which include compliance with the applicable portions of the FDA's Quality System Regulation, or QSR, facility registration and product listing, reporting of adverse medical events, and appropriate, truthful and non-misleading labeling, advertising, and promotional materials. Some Class I devices also require premarket clearance by the FDA through the 510(k) premarket notification process described below.

Class II devices are subject to FDA's general controls, and any other "special controls" deemed necessary by FDA to ensure the safety and effectiveness of the device, such as performance standards, product-specific guidance documents, special labeling requirements, patient registries or post-market surveillance. Premarket review and clearance by the FDA for Class II devices is accomplished through the 510(k) premarket notification procedure, though certain Class II devices are exempt from this premarket review process. When a 510(k) is required, the manufacturer must submit to the FDA a premarket notification submission demonstrating that the device is "substantially equivalent" to a legally marketed device, which in some cases may require submission of clinical data. Unless a specific exemption applies, 510(k) premarket notification submissions are subject to user fees. If the FDA determines that the device, or its intended use, is not substantially equivalent to a legally marketed device, the FDA will place the device, or the particular use of the device, into Class III, and the device sponsor must then fulfill much more rigorous premarketing requirements.

Class III devices, consisting of devices deemed by the FDA to pose the greatest risk, such as life-sustaining, life-supporting or implantable devices, or devices deemed not substantially equivalent to a predicate device. The safety and effectiveness of Class III devices cannot be assured solely by general or special controls. Submission

and FDA approval of a premarket approval, or PMA, application is required before marketing of a Class III device can proceed. As with 510(k) submissions, unless subject to an exemption, PMA submissions are subject to user fees. The PMA process is much more demanding than the 510(k) premarket notification process. A PMA application, which is intended to demonstrate that the device is safe and effective, must be supported by extensive data, typically including data from preclinical studies and human clinical trials.

510(k) Clearance

To obtain 510(k) clearance for a medical device, an applicant must submit to the FDA a premarket notification submission demonstrating that the proposed device is "substantially equivalent" to a legally marketed device, known as a "predicate device." A legally marketed predicate device may include a device that was legally marketed prior to May 28, 1976 for which a PMA is not required (known as a "pre-amendments device" based on the date of enactment of the Medical Device Amendments of 1976), a device that has been reclassified from Class II to Class II or Class I, or a device that was found substantially equivalent through the 510(k) process. A device is substantially equivalent if, with respect to the predicate device, it has the same intended use and has either (i) the same technological characteristics, or (ii) different technological characteristics, but the information provided in the 510(k) submission demonstrates that the device does not raise new questions of safety and effectiveness and is at least as safe and effective as the predicate device. A showing of substantial equivalence sometimes, but not always, requires clinical data.

Before the FDA will accept a 510(k) submission for substantive review, the FDA will first assess whether the submission satisfies a minimum threshold of acceptability. If the FDA determines that the 510(k) submission is incomplete, the FDA will issue a "Refuse to Accept" letter which generally outlines the information the FDA believes is necessary to permit a substantive review and to reach a determination regarding substantial equivalence. An applicant must submit the requested information before the FDA will proceed with additional review of the submission. Once the 510(k) submission is accepted for review, by regulation, the FDA has 90 days to review and issue a determination. As a practical matter, clearance often takes longer. The FDA may require additional information, including clinical data, to make a determination regarding substantial equivalence.

If the FDA agrees that the device is substantially equivalent to a predicate device currently on the market, it will grant 510(k) clearance to commercially market the device. If the FDA determines that the device is "not substantially equivalent" to a previously cleared device, the device is automatically designated as a Class III device. The device sponsor must then fulfill more rigorous PMA requirements, or can request a risk-based classification determination for the device in accordance with the "de novo" process, which is a route to market for novel medical devices that are low to moderate risk and are not substantially equivalent to a predicate device.

After a device receives 510(k) marketing clearance, any modification that could significantly affect its safety or effectiveness, or that would constitute a major change or modification in its intended use, will require a new 510(k) marketing clearance or, depending on the modification, PMA approval. The determination as to whether or not a modification could significantly affect the device's safety or effectiveness is initially left to the manufacturer using available FDA guidance. Many minor modifications today are accomplished by a "letter to file" in which the manufacture documents the rationale for the change and why a new 510(k) is not required. However, the FDA may review such letters to file to evaluate the regulatory status of the modified product at any time and may require the manufacturer to cease marketing and recall the modified device until 510(k) clearance or PMA approval is obtained. The manufacturer may also be subject to significant regulatory fines or penalties.

PMA Approval

A PMA must be submitted to the FDA for any device that is classified in Class III or otherwise cannot be cleared through the 510(k) process (although the FDA has discretion to continue to allow certain pre-amendment Class III devices to use the 510(k) process). PMA applications must be supported by, among other things, valid scientific evidence demonstrating the safety and effectiveness of the device, which typically requires extensive

data, including technical, preclinical, clinical and manufacturing data. The PMA must also contain a full description of the device and its components, a full description of the methods, facilities, and controls used for manufacturing, and proposed labeling. Following receipt of a PMA application, once the FDA determines that the application is sufficiently complete to permit a substantive review, the FDA will formally accept the application for review. The FDA, by statute and by regulation, has 180-days to review an "accepted" PMA application, although the review of an application more often occurs over a significantly longer period of time, and can take up to several years. During the review period, the FDA will typically request additional information or clarification of the information already provided. Also, an advisory panel of experts from outside the FDA may be convened to review and evaluate the application and provide recommendations to the FDA as to the approvability of the device. The FDA may or may not accept the panel's recommendation. In addition, the FDA will generally conduct a pre-approval inspection of the manufacturing facility or facilities to ensure compliance with the QSR.

If the FDA evaluations of both the PMA application and the manufacturing facilities are favorable, the FDA will either issue an approval letter or an approvable letter, which usually contains a number of conditions that must be met in order to secure final approval of the PMA. If the FDA's evaluation of the PMA or manufacturing facilities is not favorable, the FDA will deny approval of the PMA or issue a not approvable letter. A not approvable letter will outline the deficiencies in the application and, where practical, will identify what is necessary to make the PMA approvable. The FDA may also determine that additional clinical trials are necessary, in which case the PMA approval may be delayed for several months or years while the trials are conducted. Once granted, PMA approval may be withdrawn by the FDA if compliance with post-approval requirements, conditions of approval or other regulatory standards is not maintained or problems are identified following initial marketing.

In approving a PMA the FDA may also require some form of post-market surveillance when necessary to protect the public health or to provide additional safety and effectiveness data for the device. In such cases, the manufacturer might be required to follow certain patient groups for a number of years and makes periodic reports to the FDA on the clinical status of those patients.

New PMAs or PMA supplements are required for modifications that affect the safety or effectiveness of a PMA-approved device, including, for example, certain types of modifications to the device's indication for use, manufacturing process, labeling and design. PMA supplements often require submission of the same type of information as a PMA, except that the supplement is limited to information needed to support any changes from the device covered by the original PMA and may not require as extensive clinical data or the convening of an advisory panel.

De Novo Classification

Medical device types that the FDA has not previously classified as Class I, II or III are automatically classified into Class III regardless of the level of risk they pose. The Food and Drug Administration Modernization Act of 1997 established a new route to market for low to moderate risk medical devices that are automatically placed into Class III due to the absence of a predicate device, called the "Request for Evaluation of Automatic Class III Designation," or the *de novo* classification procedure. This procedure allows a manufacturer whose novel device is automatically classified into Class III to request down-classification of its medical device into Class I or Class II on the basis that the device presents low or moderate risk, rather than requiring the submission and approval of a PMA application. Prior to the enactment of the Food and Drug Administration Safety and Innovation Act of 2012, or the FDASIA, a medical device could only be eligible for *de novo* classification if the manufacturer first submitted a 510(k) premarket notification and received a determination from the FDA that the device was not substantially equivalent. FDASIA streamlined the *de novo* classification pathway by permitting manufacturers to request *de novo* classification directly without first submitting a 510(k) premarket notification to the FDA and receiving a not substantially equivalent determination. Under FDASIA, the FDA is required to classify the device within 120 days following receipt of the *de novo* application. If the

manufacturer seeks reclassification into Class II, the manufacturer must include a draft proposal for special controls that are necessary to provide a reasonable assurance of the safety and effectiveness of the medical device. In addition, the FDA may reject the reclassification petition if it identifies a legally marketed predicate device that would be appropriate for a 510(k) or determines that the device is not low to moderate risk or that general controls would be inadequate to control the risks and special controls cannot be developed.

In March 2014 we filed a pre-submission package with the FDA requesting a meeting to discuss the viability of using the *de novo* pathway to gain authorization to commercialize our gammaCore product for an initial indication in CH. In June 2014, FDA met with us and confirmed that the *de novo* pathway would be appropriate for our submission. In October 2014 we filed our initial *de novo* application with FDA. As is customary for many applications for commercial approval (Class II or Class III), FDA in a letter to us in May 2015 denied our initial application stating that our initial filing did not yet support a *de novo* clearance based on the information in the initial filing. In June 2015 we participated in an in person meeting with FDA representatives to discuss the issues raised by the FDA in its May 2015 denial letter. In October 2015, based on our June 2015 meeting with FDA, we resubmitted our *de novo* application with two proposed indications: (i) acute treatment of eCH; and (ii) prophylactic treatment of cCH. In February 2016, we received a letter from FDA indicating that our *de novo* application, with some further requested re-analysis, included sufficient data to support *de novo* classification and clearance of gammaCore for at least one indication. We performed and submitted to the FDA the requested re-analysis in March 2016 and, following additional correspondence and meetings with FDA, in April 2017, FDA approved our *de novo* classification request and cleared our gammaCore therapy in the United States for the acute treatment of pain associated with eCH in adults.

Based on this approval, of our *de novo* classification request, gammaCore has been down classified to Class II under a new Class II device regulatory category for non-invasive cervical vagus nerve stimulators for the treatment of headache. The establishment of this category created a 510(k) regulatory pathway for the potential expansion of the gammaCore label to include acute treatment and/or prevention of pain associated with migraine and cCH, as well as acute treatment and/or prevention of other primary and secondary headaches. In January 2018, the FDA cleared gammaCore for acute treatment of pain associated with migraine headaches in adult patients, and we have conducted several additional clinical studies with a view to supporting additional label expansion.

Additionally, we anticipate utilizing the *de novo* classification process to obtain marketing authorization for our product candidates under development outside the headache field.

Clinical Studies

When FDA clearance or approval of a Class I, Class II or Class III device requires human clinical trials, and if the device presents a "significant risk" to human health, the device sponsor is required to file an IDE application with the FDA and obtain IDE approval prior to commencing the human clinical trial. If the device is considered a "non-significant risk," IDE submission to FDA is not required. Instead, only approval from the Institutional Review Board, or IRB, overseeing the investigation at each clinical trial site is required. Human clinical studies are generally required in connection with approval of Class III devices and may be required for Class I and II devices. The FDA or the IRB at each institution at which a clinical trial is being performed may suspend a clinical trial at any time for various reasons, including a belief that the subjects are being exposed to an unacceptable health risk. Even if a trial is completed, the results of clinical testing may not adequately demonstrate the safety and efficacy of the device or may otherwise not be sufficient to obtain FDA clearance or approval to market the product in the United States.

Continuing Regulation

After a device is placed on the market, numerous regulatory requirements apply. These include:

· Product listing and establishment registration, which helps facilitate FDA inspections and other regulatory action;

- QSR, which requires manufacturers, including third-party manufacturers, to follow stringent design, testing, control, documentation and
 other quality assurance procedures during all aspects of the design and manufacturing process;
- labeling regulations and FDA prohibitions against the promotion of products for uncleared or unapproved "off-label" uses;
- clearance of product modifications that could significantly affect safety or efficacy or that would constitute a major change in intended use
 of one of our cleared devices;
- approval of product modifications that affect the safety or effectiveness of one of our approved devices;
- medical device reporting regulations, which require that manufacturers comply with FDA requirements to report if their device may have
 caused or contributed to a death or serious injury, or has malfunctioned in a way that would likely cause or contribute to a death or serious
 injury if the malfunction of the device or a similar device were to recur;
- post-approval restrictions or conditions, including post-approval study commitments;
- post-market surveillance regulations, which apply when necessary to protect the public health or to provide additional safety and
 effectiveness data for the device;
- the FDA's recall authority, whereby it can ask, or under certain conditions order, device manufacturers to recall from the market a product that is in violation of governing laws and regulations;
- · regulations pertaining to voluntary recalls; and
- notices of corrections or removals.

Advertising and promotion of medical devices, in addition to being regulated by the FDA, are also regulated by the Federal Trade Commission and by state regulatory and enforcement authorities. Recently, promotional activities for FDA-regulated products of other companies have been the subject of enforcement action brought under healthcare reimbursement laws and consumer protection statutes. In addition, under the federal Lanham Act and similar state laws, competitors and others can initiate litigation relating to advertising claims. If the FDA determines that our promotional materials or training constitutes promotion of an unapproved or uncleared use, it could request that we modify our training or promotional materials or subject us to regulatory or enforcement actions. It is also possible that other federal, state or foreign enforcement authorities might take action if they consider our promotional or training materials to constitute promotion of an unapproved or uncleared use, which could result in significant fines or penalties under other statutory authorities, such as laws prohibiting false claims for reimbursement. In that event, our reputation could be damaged and adoption of the products would be impaired.

Furthermore, our products could be subject to voluntary recall if we or the FDA determine, for any reason, that our products pose a risk of injury or are otherwise defective. Moreover, the FDA can order a mandatory recall if there is a reasonable probability that our gammaCore therapy would cause serious adverse health consequences or death.

The FDA has broad post-market and regulatory enforcement powers. We are subject to unannounced inspections by the FDA to determine our compliance with the QSR and other regulations, and these inspections may include the manufacturing facilities of some of our subcontractors. Failure by us or by our suppliers to comply with applicable regulatory requirements can result in enforcement action by the FDA or other regulatory authorities, which may result in sanctions including, but not limited to:

- untitled letters, warning letters, fines, injunctions, consent decrees and civil penalties;
- unanticipated expenditures to address or defend such actions

- customer notifications for repair, replacement, refunds;
- recall, detention or seizure of our products;
- operating restrictions or partial suspension or total shutdown of production;
- refusing or delaying our requests for 510(k) clearance or PMA approval of new products or modified products;
- operating restrictions;
- withdrawing 510(k) clearances or PMA approvals that have already been granted;
- · refusal to grant export approval for our products; or
- · criminal prosecution.

To date, our facility has not been inspected by the FDA.

International

Our international sales are subject to regulatory requirements in the countries in which our products are sold. The regulatory review process varies from country to country and may in some cases require the submission of clinical data.

We have received CE Mark approval in Europe for our gammaCore therapy to treat, among other indications, primary headaches, including migraines, and asthma.

In the EEA, gammaCore must comply with the Essential Requirements laid down in Annex I to Directive 93/42/EEC on the approximation of the laws of the Member States relating to medical devices or the EU Medical Devices Directive. Compliance with these requirements is a prerequisite to be able to affix the CE mark to gammaCore, without which they cannot be marketed or sold in the EEA. To demonstrate compliance with the Essential Requirements and obtain the right to affix the CE Mark medical devices manufacturers must undergo a conformity assessment procedure, which varies according to the type of medical device and its classification. Except for low risk medical devices (Class I with no measuring function and which are not sterile), where the manufacturer can issue an EC Declaration of Conformity based on a self-assessment of the conformity of its products with the Essential Requirements, a conformity assessment procedure requires the intervention of a Notified Body, which is an organization designated by a competent authority of an EEA country to conduct conformity assessments. Depending on the relevant conformity assessment procedure, the Notified Body would audit and examine the Technical File and the quality system for the manufacture, design and final inspection of the medical devices. The Notified Body issues a CE Certificate of Conformity following successful completion of a conformity assessment procedure conducted in relation to the medical device and its manufacturer and their conformity with the Essential Requirements. This Certificate entitles the manufacturer to affix the CE mark to its medical devices after having prepared and signed a related EC Declaration of Conformity.

As a general rule, demonstration of conformity of medical devices and their manufacturers with the Essential Requirements must be based, among other things, on the evaluation of clinical data supporting the safety and performance of the products during normal conditions of use. Specifically, a manufacturer must demonstrate that the device achieves its intended performance during normal conditions of use and that the known and foreseeable risks, and any adverse events, are minimized and acceptable when weighed against the benefits of its intended performance, and that any claims made about the performance and safety of the device (e.g., product labeling and instructions for use) are supported by suitable evidence. This assessment must be based on clinical data, which can be obtained from (1) clinical studies conducted on the devices being assessed, (2) scientific literature from similar devices whose equivalence with the assessed device can be demonstrated or (3) both clinical studies and scientific literature. With respect to Class III devices, the manufacturer must conduct

clinical studies to obtain the required clinical data, unless reliance on existing clinical data from equivalent devices can be justified. The conduct of clinical studies in the EEA is governed by detailed regulatory obligations. These may include the requirement of prior authorization by the competent authorities of the country in which the study takes place and the requirement to obtain a positive opinion from a competent Ethics Committee. This process can be expensive and time-consuming.

Moreover, in May 2017, the EU Medical Devices Regulation (Regulation 2017/745) was adopted. The EU Medical Devices Regulation repeals and replaces the EU Medical Devices Directive. Unlike directives, which must be implemented into the national laws of the EEA Member States, the regulations would be directly applicable, i.e., without the need for adoption of EEA Member State laws implementing them, in all EEA member States and are intended to eliminate current differences in the regulation of medical devices among EEA member States. The EU Medical Devices Regulation, among other things, is intended to establish a uniform, transparent, predictable and sustainable regulatory framework across the EEA for medical devices and ensure a high level of safety and health while supporting innovation. The EU Medical Devices Regulation will however only become applicable three years after publication (in May 2020). Once applicable, the new regulations will among other things:

- strengthen the rules on placing devices on the market and reinforce surveillance once they are available;
- establish explicit provisions on manufacturers' responsibilities for the follow-up of the quality, performance and safety of devices placed on the market;
- improve the traceability of medical devices throughout the supply chain to the end-user or patient through a unique identification number;
- set up a central database to provide patients, healthcare professionals and the public with comprehensive information on products available in the EU;
- strengthened rules for the assessment of certain high-risk devices which may have to undergo an additional check by experts before they are placed on the market.

Other Regulations

We are also subject to healthcare fraud and abuse regulation in the jurisdictions in which we will conduct our business. These laws include, without limitation, applicable anti-kickback, false claims, physician sunshine and patient privacy and security laws and regulations.

Anti-Kickback Statute: The federal Anti-Kickback Statute prohibits, among other things, persons or entities from knowingly and willfully soliciting, offering, receiving or paying any remuneration, directly or indirectly, overtly or covertly, in cash or in kind, in exchange for or to induce either the referral of an individual for, or the purchase, lease, order or recommendation of, any good, facility, item or service for which payment may be made, in whole or in part, under federal healthcare programs such as Medicare and Medicaid. The federal Anti-Kickback Statute is broad and prohibits many arrangements and practices that are lawful in businesses outside of the healthcare industry. The term "remuneration" includes kickbacks, bribes, or rebates and also has been broadly interpreted to include anything of value, including for example, gifts, discounts, the furnishing of supplies or equipment, credit arrangements, payments of cash, waivers of payments, ownership interests, relieving a referral source of a financial or administrative burden and providing anything at less than its fair market value. In addition, longstanding OIG guidance makes clear that the opportunity for a referring physician to earn a profit, including through an investment in an entity for which he or she generates business, could constitute illegal remuneration under the Anti-Kickback Statute. The Anti-Kickback Statute is violated if even one purpose of the remuneration is to induce such referrals.

There are a number of narrow statutory exceptions and regulatory safe harbors protecting certain defined business arrangements from prosecution under the federal Anti-Kickback Statute. These statutory exceptions and

safe harbors set forth provisions that, if all their applicable requirements are met, will assure healthcare providers and other parties that they may not be prosecuted under the federal Anti-Kickback Statute. The failure of a transaction or arrangement to fit precisely within one or more applicable statutory exceptions or safe harbors does not necessarily mean that it is illegal or that prosecution will be pursued. However, conduct and business arrangements that do not fully satisfy all requirements of an applicable safe harbor may result in increased scrutiny by government enforcement authorities and will be evaluated on a case-by-case basis based on a cumulative review of all of its facts and circumstances. Further, a person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation. In addition, the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the federal civil False Claims Act which is discussed below. Penalties for violations of the Anti-Kickback Statute include, but are not limited to, civil monetary penalties up to \$74,792 (and adjusted for inflation) for each violation, plus up to three times the remuneration involved, criminal fines of up to \$100,000 and imprisonment of up to 10 years, disgorgement, individual imprisonment, possible exclusion from Medicare, Medicaid and other federal healthcare programs, and the curtailment or restructuring of operations.

In the event that third-party payors require us to be a DME supplier or we sell our products directly to providers who are DME suppliers that submit claims to such payors, we may be subject to the federal Stark physician self-referral law, which prohibits a physician from making a referral for certain designated health services covered by the Medicare program, including DME, if the physician or an immediate family member has a financial relationship with the entity providing the designated health services, and prohibits that entity from billing or presenting a claim for the designated health services furnished pursuant to the prohibited referral, unless an exception applies. Sanctions for violating the Stark Law include denial of payment, civil monetary penalties of up to \$24,253 (and adjusted for inflation) per claim submitted and exclusion from the federal health care programs. Failure to refund amounts received as a result of a prohibited referral on a timely basis may constitute a false or fraudulent claim and may result in civil penalties and additional penalties under the FCA. The statute also provides for a penalty of up to \$161,692 (and adjusted for inflation) for a circumvention scheme. Various states also have corollary laws to the Stark Law, including laws that require physicians to disclose any financial interest they may have with a healthcare provider to their patients when referring patients to that provider. Both the scope and exceptions for such laws vary from state to state.

Federal Civil False Claims Act: The federal civil False Claims Act prohibits, among other things, persons or entities from knowingly presenting or causing to be presented a false or fraudulent claim for, or the knowing use of false statements to obtain, payment of federal funds. In addition, private individuals have the ability to bring actions under the civil False Claims Act in the name of the government alleging false and fraudulent claims presented to or paid by the government (or other violations of the statutes) and to share in any amounts paid by the entity to the government in fines or settlement. Such suits, known as qui tam actions, have increased significantly in the healthcare industry in recent years. Manufacturers can be held liable under these laws if they are deemed to "cause" the submission of false or fraudulent claims by, for example, providing inaccurate billing or coding information to customers or promoting a product off-label. Penalties for a federal civil False Claims Act violation include three times the actual damages sustained by the government, plus mandatory civil penalties of between from \$11,181 to \$22,363 (and adjusted for inflation) for each false claim, plus treble damages, the potential for exclusion from participation in federal healthcare programs. The majority of states also have statutes or regulations similar to the federal Anti-Kickback and False Claims Act, which apply to items and services reimbursed under Medicaid and other state programs, or, in several states, apply regardless of the payor.

Civil Monetary Penalties. The Civil Monetary Penalty Act of 1981 imposes penalties against any person or entity that, among other things, is determined to have presented or caused to be presented a claim to a federal healthcare program that the person knows or should know is for an item or service that was not provided as claimed or is false or fraudulent, or offering or transferring remuneration to a federal healthcare beneficiary that a person knows or should know is likely to influence the beneficiary's decision to order or receive items or services reimbursable by the government from a particular provider or supplier.

Federal Healthcare Fraud Laws. Other federal healthcare fraud-related laws also provide criminal liability for violations. The Criminal Healthcare Fraud statute (18 U.S.C. § 1347) prohibits knowingly and willfully executing a scheme to defraud any healthcare benefit program, including private third-party payors. Federal criminal law at 18 U.S.C. § 1001, among other sections, prohibits knowingly and willfully falsifying, concealing, or covering up a material fact or making any materially false, fictitious, or fraudulent statement in connection with the delivery of or payment for healthcare benefits, items, or services.

Health Insurance Portability and Accountability Act of 1996: The federal Health Insurance Portability and Accountability Act, or HIPAA, created several new federal crimes, including healthcare fraud and false statements relating to healthcare matters. The healthcare fraud statute prohibits knowingly and willfully executing, or attempting to execute, a scheme to defraud any healthcare benefit program, including private third-party payors. The false statements statute prohibits knowingly and willfully falsifying, concealing or covering up a material fact or making any materially false, fictitious or fraudulent statement in connection with the delivery of or payment for healthcare benefits, items or services. Similar to the federal Anti-Kickback Statute, a person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation.

In addition, HIPAA and its implementing regulations established uniform standards for certain covered entities, which are healthcare providers, health plans and healthcare clearinghouses, as well as their business associates and subcontractors, governing the conduct of specified electronic healthcare transactions and protecting the security and privacy of protected health information. HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act, or HITECH created four new tiers of civil monetary penalties and gave state attorneys general new authority to file civil actions for damages or injunctions in federal courts to enforce the federal HIPAA laws and seek attorneys' fees and costs associated with pursuing federal civil actions. Additionally, certain states have adopted comparable privacy and security laws and regulations, some of which may be more stringent than HIPAA and HITECH.

The Federal Physician Payments Sunshine Act: The federal Physician Payments Sunshine Act requires certain manufacturers of drugs, devices, biologics and medical supplies for which payment is available under Medicare, Medicaid or the Children's Health Insurance Program, with certain exceptions, to report annually to the Centers for Medicare & Medicaid Services, or CMS, information related to "payments or other transfers of value" made to physicians (defined to include doctors, dentists, podiatrists and chiropractors) and teaching hospitals, and to report annually to CMS certain ownership and investment interests held by physicians and their immediate family members. Failure to submit required information may result in civil monetary penalties of \$11,052 per failure up to an aggregate of \$165,786 per year (or up to an aggregate of \$1.105 million per year for "knowing failures"), for all payments, transfers of value or ownership or investment interests that are not timely, accurately, and completely reported in an annual submission, and may result in liability under other federal laws or regulations. Certain states also require device manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures, require pharmaceutical companies to comply with the industry's voluntary compliance guidelines and the applicable compliance guidance promulgated by the U.S. federal government, or otherwise restrict payments that may be made to healthcare providers and other potential referral sources.

EU Data Protection Legislation: We are subject to laws and regulations in non-U.S. countries covering data privacy and the protection of health-related and other personal information. EU member states and other jurisdictions have adopted data protection laws and regulations, which impose significant compliance obligations. For example, the EU Data Protection Directive, as implemented into national laws by the EU member states, imposes strict obligations and restrictions on the ability to collect, analyze and transfer personal data, including health data from clinical trials and adverse event reporting. Failing to comply with these laws could lead to government enforcement actions and significant penalties against us, and adversely impact our operating results. The EU General Data Protection Regulation, or GDPR, will become applicable on May 25, 2018 and will replace the EU Data Protection Directive. Unlike the Directive (which needed to be implemented

by national laws), the GDPR is directly applicable in each EU Member State, resulting in a more uniform application of data privacy laws across the EU. The GDPR imposes stricter requirements and onerous accountability obligations on companies that process personal data, especially if they process sensitive personal data (such as data concerning health). Fines for non-compliance with the GDPR will be significant – up to & 20 million or 4% of global turnover, whichever is higher.

The Foreign Corrupt Practices Act: The Foreign Corrupt Practices Act, or FCPA, prohibits any U.S. individual or business from paying, offering, or authorizing payment or offering of anything of value, directly or indirectly, to any foreign official, political party or candidate for the purpose of influencing any act or decision of the foreign entity in order to assist the individual or business in obtaining or retaining business. The FCPA also obligates companies whose securities are listed in the United States to comply with accounting provisions requiring the company to maintain books and records that accurately and fairly reflect all transactions of the corporation, including international subsidiaries, and to devise and maintain an adequate system of internal accounting controls for international operations.

Healthcare Reform

The United States and some foreign jurisdictions are considering or have enacted a number of legislative and regulatory proposals to change the healthcare system in ways that could affect our ability to sell our products profitably. Among policy makers and payors in the United States and elsewhere, there is significant interest in promoting changes in healthcare systems with the stated goals of containing healthcare costs, improving quality or expanding access. Current and future legislative proposals to further reform healthcare or reduce healthcare costs may limit coverage of or lower reimbursement for our products. The cost containment measures that payors and providers are instituting and the effect of any healthcare reform initiative implemented in the future could impact our revenue from the sale of our products.

The implementation of the Affordable Care Act in the United States, for example, has changed healthcare financing and delivery by both governmental and private insurers substantially, and affected medical device manufacturers significantly. The Affordable Care Act imposed, among other things, a new federal excise tax on the sale of certain medical devices, which, through a series of legislative amendments, was suspended for 2016 through 2019, and which, absent further legislative action, will be reinstated on medical device sales starting January 1, 2020; provided incentives to programs that increase the federal government's comparative effectiveness research, and implemented payment system reforms including a national pilot program on payment bundling to encourage hospitals, physicians and other providers to improve the coordination, quality and efficiency of certain healthcare services through bundled payment models. Additionally, the Affordable Care Act has expanded eligibility criteria for Medicaid programs and created a new Patient-Centered Outcomes Research Institute to oversee, identify priorities in, and conduct comparative clinical effectiveness research, along with funding for such research. We do not yet know the full impact that the Affordable Care Act will have on our business. There have been judicial and Congressional challenges to certain aspects of the Affordable Care Act, and we expect additional challenges and amendments in the future. Moreover, the Trump Administration and the U.S. Congress may take further action regarding the Affordable Care Act, including, but not limited to, repeal or replacement. Most recently, the Tax Cuts and Jobs Acts was enacted, which, among other things, removes penalties for not complying with the individual mandate to carry health insurance beginning in 2019.

In addition, other legislative changes have been proposed and adopted since the Affordable Care Act was enacted. For example, the Budget Control Act of 2011, among other things, included reductions to Medicare payments to providers of 2% per fiscal year, which went into effect on April 1, 2013 and, due to subsequent legislative amendments to the statute, will remain in effect through 2027 unless additional Congressional action is taken. Additionally, the American Taxpayer Relief Act of 2012, among other things, reduced Medicare payments to several providers, including hospitals, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years.

We expect additional state and federal healthcare reform measures to be adopted in the future, any of which could limit the amounts that federal and state governments will pay for healthcare products and services, which could result in reduced demand for our products or additional pricing pressure.

Employees

As of May 21, 2018, we employed 64 full-time employees. Substantially all of our employees are located in Basking Ridge, New Jersey. None of our employees are represented by a labor union or covered by a collective bargaining agreement. We consider our relationship with our employees to be good.

Facilities

Our principal offices occupy approximately 25,000 square feet of leased office space in Basking Ridge, New Jersey, pursuant to a lease agreement that expires in April 30, 2022. We believe that our current facilities are suitable and adequate to meet our current needs. We may in the future add new facilities or expand existing facilities as we add employees, and we believe that suitable additional or substitute space will be available as needed to accommodate any such expansion of our operations.

Legal Proceedings

From time to time we may become involved in various legal proceedings, including those that may arise in the ordinary course of business. Although the outcomes of these legal proceedings cannot be predicted with certainty, other than as set forth below, we are not subject to any material legal proceedings.

On May 11, 2018, Madison Global Partners, a division of Trident Partners, Ltd., or Madison Global, filed a complaint against us in the Supreme Court of the State of New York, County of New York (Index No. 652329/2018). We are party to an engagement letter, as amended, with Madison Global pursuant to which it acted as our financial advisor. Madison Global has claimed that under the terms of the engagement letter, as amended, it is owed \$575,000 plus warrants to purchase additional shares of our capital stock beyond those we have agreed to issue to it. The Company believes it has paid all amounts due to Madison Global under the terms of the engagement letter, as amended. While the Company believes that it has substantial legal and factual defenses to the claims in this lawsuit and intends to vigorously defend the case and may consider bringing counterclaims against Madison Global, the outcome of the litigation is difficult to predict and quantify at this time.

Glossary

"a7nAChR" refers to a receptor, specifically the alpha 7 nicotinic ACh receptor, that resides on the surface of many cell types, including macrophages and microglia, the dominant immune cell of the brain. Activation of this receptor by neurotransmitters, including acetylcholine, has been shown to cause a change in the inflammation state mediated by these cells, which has led to this immune modulatory pathway being referred to as "the cholinergic anti-inflammatory pathway", or "CAP".

"ACh" means acetylcholine, which is a neurotransmitter released by certain neurons in the brain and by the vagus nerve. ACh is also released by a class of immune cells in response to certain stimuli.

"CAP" means the cholinergic anti-inflammatory pathway, which is an autonomic reflex that inhibits the release of pro-inflammatory proteins called cytokines involving signaling in the vagus nerve, the release of acetylcholine and the activation of alpha 7 nicotinic ACh receptors.

"CGRP" means calcitonin gene—related peptide, which is a protein produced by, and released by neurons. CGRP activates other neurons that are involved in pain perception. CGRP is also known to be a powerful vasodilator, causing dilation of blood vessels.

"CH" means cluster headache, which is a headache disorder in which patients experience attacks of severe head pain, typically centered around the eye on one side, which occur from once every other day to eight times a day for a period that may last for a week, months or years. The attacks typically last 15 minutes to 180 minutes and the pain is typically associated tearing, eyelid dropping, sweating, congestion and/or runny nose.

"cCH" means chronic CH, which is a classification of CH defined by CH attacks occurring for more than one year without remission, or with remission periods lasting less than three months.

"CSD" means cortical spreading depression, which is a slow moving, self-propagated wave of depolarization of neurons and glial cells that spreads across the brain.

"eCH" means episodic CH, which is a classification of CH defined by CH attacks occurring in periods lasting from seven days to one year, separated by pain-free periods lasting at least three months.

"DAS" means disease activity score, which is an assessment used to measure rheumatoid arthritis (RA) disease activity, to determine whether the signs and symptoms have reduced or stopped, and if treatment needs to be adjusted.

"DHE" means dihydroergotamine, which is a medication indicated for medically refractory migraine headaches. Its therapeutic activity has been attributed to activity against certain serotonin receptors, and has potent vasoconstricting effects on intracranial blood vessels.

"EEG" means electroencephalography, which involves the measurement and recording of electrical activity in the brain.

"functional magnetic resonance imaging" is an imaging technique that allows for, among other things, the measurement of brain activity through the detection of changes in blood oxygenation and flow that occur in response to neuronal activity.

"GABA" means gamma-aminobutyric acid, which is one of the primary inhibitory neurotransmitters in the brain.

"IL-1ß"means interleukin-1 beta, which is a pro-inflammatory cytokine involved in immune responses.

"LC" means locus coeruleus, which is a small region of the brainstem that is the sole source of norepinephrine in the brain.

"magnetoencephalography" is an imaging technique utilizing superconducting coils to measure the tiny magnetic fields generated by nerve activity within the brain from outside the skull.

"MTX" means methotrexate, which is an immunosuppressive medication, originally used in oncology, and now used widely as a first line treatment for rheumatoid arthritis (RA) and related inflammatory disorders.

"nVNS" means noninvasive vagus nerve stimulation, which is a therapy employing the modulation of signals carried along certain fibers in the cervical vagus nerve which is achieved by the delivery of electric signals passed through the skin without physically penetrating the body.

"NRM" means the nucleus raphe magnus, which is a structure in the brainstem that is a major component in the endogenous pain inhibitory system and that produces and releases serotonin.

"PAG" means the periaqueductal gray, which is a structure in the brainstem that is a major component in the endogenous pain inhibitory system and that produces and releases the neurotransmitter GABA.

"PTH" means post-traumatic headache, which is a headache condition resembling migraine that results from a traumatic head injury.

"RA" means rheumatoid arthritis, which is a common autoimmune disease characterized by chronic joint inflammation leading to pain, swelling, and ultimately the degeneration of cartilage and bone within the affected joint.

"SN" means the substantia nigra, which is a large midbrain structure that can be divided into two parts, one of which synthesizes and releases a neurotransmitter called dopamine, and the other of which synthesizes and releases the neurotransmitter GABA neurons.

"SPG" means sphenopalatine ganglion, which is a nerve bundle behind the bony structure of the nose that connects to the nerves in and around the eye socket. Activity in the SPG has been associated with CH.

"TCC" means the trigeminal cervical complex, which is a region of the brainstem that serves as a primary center and relay for pain, having inputs known to be associated with the generation and perception of head pain.

"TNF-a" means tumor necrosis factor alpha, which is a pro-inflammatory protein, or cytokine, involved in inflammatory events, and is associated with both the initiation and conclusion of inflammatory processes.

"VNS" means vagus nerve stimulation, which is a therapy involving the triggering of signals within certain fibers of the vagus nerve known to alter biologic function through the promotion of neurotransmitter release.

MANAGEMENT

The following table sets forth the name, age as of June 1, 2018 and position of the individuals who currently serve as executive officers, directors and key employees of Electrocore, LLC, and are expected to continue to serve as the executive officers, directors and key employees of electroCore, Inc. following the corporate conversion and the completion of this offering. The following also includes certain information regarding the individual experience, qualifications, attributes and skills of our executive officers, directors and key employees, as well as brief statements of those aspects of our directors' backgrounds that led us to conclude that they are qualified to serve as directors.

Name	<u>Age</u>	Position(s)
Executive officers:		
Francis R. Amato	54	Chief Executive Officer and Director
Joseph P. Errico	49	Chief Science and Strategy Officer and Chairman of the Board
Peter S. Staats, M.D.	55	Chief Medical Officer
Glenn S. Vraniak	55	Chief Financial Officer
Key employees:		
Roland D. Duhart	60	Chief Commercial Officer
Eric J. Liebler	54	Senior Vice President, Neurology
Steven M. Mendez	57	Chief Technical Officer
Michael Romaniw	61	Vice President, Quality Assurance
Bruce J. Simon, Ph.D.	68	Vice President, Research
Non-employee directors:		
Michael G. Atieh	64	Director Designee*
Nicholas Colucci	59	Director
Carrie S. Cox	60	Director and Chairman of the Board Designee*
Thomas J. Errico, M.D.	66	Director
Trevor J. Moody	53	Director
Stephen L. Ondra, M.D.	61	Director Designee*
Michael W. Ross	46	Director**
David M. Rubin, Ph.D.	53	Director**
James L.L. Tullis	71	Director

^{*} Will assume office as an independent director upon the effectiveness of the registration statement to which this prospectus is a part.

Executive Officers

Francis R. Amato has served as our Chief Executive Officer since July 2016, and as a member of our board of directors since June 2017. Mr. Amato previously served as our Chief Operating Officer from July 2012 through July 2016. Prior to joining our company, he spent 22 years within the pharmaceutical industry, most recently as Vice President of the Specialty Commercial Operations Group, Global Human Health at Merck & Co. Before joining Merck, Mr. Amato gained extensive commercial experience as Executive Director, Global Business Operations at Schering-Plough, Business Unit Lead, Oncology at Ligand Pharmaceuticals, National Sales Director, Specialty Managed Markets at Pfizer Inc. and National Sales Director, Hospitals at Pharmacia Corporation. Prior to joining the pharmaceutical industry, Mr. Amato was an Infantry Medic in the 82nd Airborne Division of the United States Army. Mr. Amato received his B.A. in Political Science from St. John's University and his Executive MBA from Pepperdine University's Graziadio School of Management. Our board of directors believes that Mr. Amato's extensive senior management experience in the pharmaceutical industry qualifies him for service on our board of directors.

^{**} Will resign at or prior to the effectiveness of the registration statement to which this prospectus is a part.

Joseph P. Errico has served as our Chief Science and Strategy Officer since July 2016, and previously served as our Chief Executive Officer from January 2010 to July 2016. Mr. Errico has also served as a member of our board of directors since 2005, when he co-founded our company with Thomas J. Errico and Peter S. Staats, and as chairman of our board of directors since March 2013. Prior to founding our company, Mr. Errico served as the General Manager of the Motion Preservation Unit of Stryker Spine, a Division of Stryker Corporation, from August 2004 through December 2007. Prior to that, Mr. Errico co-founded and served as the Chief Executive Officer and director for Spinecore, Inc., from September 2001 through August 2004, when that company was sold to Stryker Corporation. Mr. Errico received his B.S. in Aeronautical Engineering from the Massachusetts Institute of Technology, his M.S. in Mechanical Engineering and Materials Science from Duke University School of Engineering and his J.D. from Duke University School of Law. Our board of directors believes that Mr. Errico's extensive senior management experience in innovative healthcare technology companies, and his extensive knowledge and contributions to our company's intellectual property, products, business, and the science of VNS, qualify him to serve on our board of directors.

Peter S. Staats, M.D. has served as our Chief Medical Officer since May 2017. Dr. Staats also served as a member of our board of directors from 2005, when he co-founded our company with Thomas J. Errico and Joseph P. Errico, until January 2018. Dr. Staats has also served as Chief Medical Officer of National Spine and Pain, LLC, the largest pain practice in the United States, since May 2017. From December 2003 to July 2017, he held the roles of physician and a managing partner of Premier Pain Centers, LLC. Dr. Staats was also the founder of the division of pain medicine in the Department of Anesthesiology and Critical Care Medicine at Johns Hopkins University, where he served as its director for years. He has served the non-profit Positive Outcomes Worldwide as founder and Chief Executive Officer since 2015. Dr. Staats was President of ASIPP, a national Physician Advocacy Organization from 2015 to 2016 and President of the NJ Society of International Pain Physicians, a state Physician Advocacy Organization, from 2013 to 2015. He has served as President of the North American Neuromodulation Society from 2002 to 2003. He has served as Director for the World Institute of Pain since 2015 and is currently chairman of the board of examination for the WIP. Peter received his M.D. from the University of Michigan Medical School and completed his residency and fellowship training at the Johns Hopkins University School of Medicine.

Glenn S. Vraniak has served as our Chief Financial Officer since August 2016. Prior to joining our company, from January 2016 to August 2016, Mr. Vraniak provided healthcare consulting services to private equity and healthcare companies as a principal of GSV Advisory Services, LLC. From February 2014 to January 2016, Mr. Vraniak served as Chief Financial Officer at G&W Laboratories, Inc., a specialty pharmaceutical company, where he executed the growth strategy by acquiring two companies and over 35 products. Prior to that, from October 2011 through July 2013, he was President of Aprecia Pharmaceuticals, Inc., a 3D printing technology enabled pharmaceutical company. From 2003 through 2011, Mr. Vraniak was the CFO and Head of Strategic Planning for Prasco Laboratories, a generic pharmaceutical company. From January 2000 to January 2002, he served as Executive VP for GE Capital, and subsequently founded Preceptus, a boutique consulting firm focused on helping small and mid-market companies achieve efficient and scalable growth in the healthcare and technology sectors. Mr. Vraniak received an Electronic Engineering Technology degree and a Managerial MBA in Finance from the Rutgers University Center for Management Development.

Other Key Employees

Roland D. Duhart has served as our Chief Commercial Officer since January 2018, and previously served as our Global Vice President, Sales and Marketing since July 2016. Prior to joining our company, from February 2015 to June 2016, Mr. Duhart held the position of VP, Business Development at Publicis Touchpoint Solutions, a full-service healthcare commercialization company. Previously, from December 2012 to January 2015, he served as Sr. VP, Business Development & Client Services at VMS BioMarketing, a healthcare company. In addition, Mr. Duhart has led sales and marketing teams with increasing scope of responsibility at Schering Plough, Pharmacia-Upjohn, Novartis, and Amylin. Mr. Duhart received his B.S. in Business Administration, Finance from California State University, Northridge.

Eric J. Liebler has served as our Senior Vice President, Neurology since January 2013. Prior to joining our company, Mr. Liebler served from January 2010 to December 2012 as President and member of the board of directors of Nautilus Neurosciences, a neurology-focused pharmaceutical company that he co-founded in 2009. At Nautilus, Mr. Liebler was involved in all facets of the organization and its early success, including initial funding, product commercialization, and sales and marketing. Prior to founding Nautilus, Mr. Liebler served from September 2007 to December 2008 as Executive Vice President, Corporate Development at Pharmacopeia Inc. Prior to that, he served as Senior Vice President, Strategic Planning and Communication at Questor Pharmaceuticals from August 2006 to September 2007. Mr. Liebler was Managing Partner of Nisola, LLC, a biopharmaceutical consulting firm, from November 2005 to September 2007. He served as Vice President, Business Development at Enzon Pharmaceuticals from December 2002 to November 2005. Previously, Mr. Liebler served as President of Amarin Pharmaceuticals and spent more than 10 years with Elan Corporation and its predecessor Athena Neurosciences, where he served in a number of increasingly senior roles in marketing, investor relations and strategic planning. He also previously served for more than 10 years on the Board of Trustees of the American Academy of Neurology Foundation, now the American Brain Foundation. Mr. Liebler received his B.A. from Tufts University.

Steven M. Mendez has served as our Chief Technical Officer since July 2016, and previously served as Chief Science Officer from 2005 to 2016. Prior to joining our company, from 1998 to 2005, Mr. Mendez was Vice President at EBI, LLC, a subsidiary of Biomet Inc., where he was responsible for electronic, bracing, and softgood products, in addition to overseeing the development of external and implantable electrical/thermal therapy medical devices. Prior to that, Mr. Mendez held engineering positions at Adaptive Instruments Corporation from 1995 to 1998, Walchem Corporation from 1990 to 1994, Wang Laboratories from 1986 to 1989, and United Technologies Corporation from 1983 to 1986. Mr. Mendez received his B.A. in Biology and B.S. in Electrical Engineering from Lehigh University and his M.S. in Electrical Engineering from the Rensselaer Polytechnic Institute.

Michael Romaniw has served as our Vice President, Quality Assurance since January 2011. Prior to joining our company, Mr. Romaniw served as Director of Regulatory Compliance at EBI, LLC, a subsidiary of Biomet Inc. from May 2005 to January 2008, and again from June 2010 to December 2010. Between his periods employment at EBI, Mr. Romaniw held the position of Director of Quality Assurance & Regulatory Compliance at Orthofix Spinal Implants, an affiliate of Blackstone Medical Inc., where he was responsible for product quality control, quality engineering, supplier management, and product complaint handling, as well as the management of field actions and recalls. Prior to that, Mr. Romaniw held various roles relating to manufacturing, design and development, and quality management at companies including Synthes, Sulzer Orthopedics, Kirschner Medical, and 3M Orthopedic Products.

Bruce J. Simon, Ph.D. has served as our Vice President, Research since January 2008. Prior to joining our company, Dr. Simon served as Senior Director of Research at EBI, LLC, a division of Biomet, Inc., from September 1991 to December 2007, where he directed research on the effects of electric and electromagnetic fields on bone, cartilage and soft tissue repair. He has authored or co-authored more than 60 peer-reviewed publications and has 40 issued or pending patents. Dr. Simon obtained a B.S. in Physics from the Massachusetts Institute of Technology and a Ph.D. in Physiology and Biophysics from the University of Iowa. After completing his Ph.D., he spent several years as a Research Assistant Professor at the University of Maryland and then as an Assistant Professor at the University of Texas. His research focused on various aspects of electrophysiology, including excitation-contraction coupling in muscle and biophysical modeling.

Non-employee Directors

Michael G. Atieh will assume service as a director upon effectiveness of the registration statement to which this prospectus is a part. Since 1992, Mr. Atieh has served on the board of directors of Chubb Limited, a publicly traded global insurance company, where he chairs the audit committee and is a member of the executive committee. From September 2014 until his retirement in March 2016, Mr. Atieh was Executive Vice President,

Chief Financial and Business Officer of Ophthotech Inc., a public biotechnology company. From February 2009 until its acquisition in February 2012, Mr. Atieh was Executive Chairman of Eyetech Inc., a private specialty pharmaceutical company. He was Executive Vice President and Chief Financial Officer of OSI Pharmaceuticals, a public biotechnology company, from 2005 until December 2008. He also served as a member of the board of directors of Theravance Biopharma, Inc. from June 2014 to April 2015, and as a member of the board of directors and chairman of the audit committee for OSI Pharmaceuticals from June 2003 to May 2005. Previously, Mr. Atieh served at Dendrite International, Inc. as Group President from January 2002 to February 2004 and as Senior Vice President and Chief Financial Officer from October 2000 to December 2001. He also served as Vice President of U.S. Human Health, a division of Merck & Co., Inc., from January 1999 to September 2000, as Senior Vice President — Merck-Medco Managed Care, L.L.C., an indirect wholly-owned subsidiary of Merck, from April 1994 to December 1998, as Vice President — Public Affairs of Merck from January 1994 to April 1994 and as Treasurer of Merck from April 1990 to December 1993. Mr. Atieh received his B.A. in Accounting and Finance from Upsala College in 1975. Mr. Atieh is qualified to serve on our board of directors because of his demonstrated leadership in the biomedical field, including deep knowledge of sales and operations gained from over a decade of experience in these disciplines, as well as his knowledge of financial and financing matters, his current and prior board experience, and his ability to serve as a financial expert on our audit committee.

Carrie S. Cox will assume service as a director and the Chairman of the board of directors upon effectiveness of the registration statement to which this prospectus is a part. Since 2010, Ms. Cox has served as the Chief Executive Officer of Humacyte, Inc., a regenerative medical technology company, where she also holds the position of Chairman of the Board and is a member of its audit committee. Prior to serving as Chief Executive Officer of Humacyte, Inc., Ms. Cox served as Chairman of Prism Pharmaceuticals, which was sold to Baxter Corporation in 2011. Ms. Cox was EVP and President, Global Pharmaceuticals, at Schering-Plough Corporation, from 2003 until its merger with Merck & Co., Inc., in November 2009. Prior to joining Schering-Plough, Ms. Cox served as President of Pharmacia Corporation's pharmaceutical business until its merger with Pfizer Inc. in 2003. Previously, Ms. Cox served as SVP of Global Business Management at Pharmacia & Upjohn (the predecessor to Pharmacia), and as VP of Women's Healthcare at Wyeth-Ayerst. She spent her early career at Sandoz pharmaceuticals (now Novartis) in a variety of commercial roles of increasing responsibility. Ms. Cox currently serves on the Boards of Directors of Texas Instruments, Cardinal Health, and Celgene, and she has served as Lead Director for Texas Instruments. She received her B.S. from Massachusetts College of Pharmacy. Ms. Cox is qualified to serve on our board of directors by virtue of her distinguished career in global healthcare and her significant experience and leadership serving in executive positions of some of the largest and most successful multi-national healthcare companies in the world, including with responsibility for those companies' financial performance and significant capital and research and development investments.

Nicholas Colucci has served on our board of directors since August 2017. Since February 2018, Mr. Colucci has been Chairman of Publicis Health, a healthcare communications company. From May 2007 to January 2018, Mr. Colucci served as Chief Executive Officer of Publicis Health, and prior thereto, held a variety of account, strategy and leadership roles at Publicis Health, beginning in 1997. Prior to that, Mr. Colucci served as Vice President of Marketing & Sales at EyeSys Technologies (from 1995 to 1997) and as Marketing Director at Hoffman-La Roche (from 1982 to 1995). Mr. Colucci has also previously served on the boards of directors of SDI/Verispan, a healthcare market research company, and of National Rehab, a wound care distribution company. Mr. Colucci received his B.S. in Neuroscience from the University of Rochester and his M.B.A. from Loyola University Maryland. Our board of directors believes that Mr. Colucci's background, with more than 30 years of experience across important life sciences and communications industries, qualifies him to serve on our board of directors.

Thomas J. Errico, M.D. has served on our board of directors since September 2005, when he co-founded the company with Joseph P. Errico and Peter S. Staats. Dr. Errico has been a board-certified orthopedic surgeon since 1986, and currently serves as the Chief of Division of Spine Surgery in Orthopedics for NYU Langone Health, a position he has held since 1997. He is also currently a Professor of Orthopedic and Neurologic Surgery

in the NYU School of Medicine. In addition, Dr. Errico is a member of the International Society for the Advancement of Spine Surgery, and served as its President from 2010 to 2011. He is also an original member of the North American Spine Society, and served as its President from 2003 to 2004. Dr. Errico has founded multiple companies in the healthcare industry, including Spinecore, Inc. in 2002, where he served as a director until it was sold to Stryker, Inc. in 2004. Dr. Errico was also a founding member of K2M Group Holdings, Inc. in January 2004. Dr. Errico holds a B.S. in Zoology from Rutgers University and an M.D. from Rutgers Medical School, formerly the University of Medicine and Dentistry of New Jersey. Our board of directors believes Dr. Errico is qualified to serve on our board of directors due to his long tenure as a practicing spine-surgeon and his leadership role with a world class academic medical institution, as well as serving as a co-founder, director and investor in a number of successful early stage healthcare companies.

Trevor J. Moody has served on our board of directors since March 2013. Mr. Moody has served since January 2010 as President of TM Strategic Advisors LLC, a management consultancy serving the boards, investors, and senior management of both emerging and established medical technology companies. He also currently serves as Medical Device Partner at MH Carnegie & Co. Pty Ltd (since October 2013), where he makes venture capital investments in medical device companies. From July 2015 to December 2015, Mr. Moody served as interim CEO of a MH Carnegie & Co. portfolio company, Cardiac Dimensions Pty Ltd. From 1999 to 2010, Mr. Moody was at Frazier Healthcare Ventures, a large healthcare-focused venture capital and private equity investment firm. He was a General Partner at Frazier Healthcare Ventures from 2005 to 2010. Prior to that, he was a Senior Consultant at The Wilkerson Group, a leading healthcare strategic consultancy. Mr. Moody currently also serves on the board of trustees of a non-profit called the Center for Infectious Disease Research, and on the boards of several private corporations, including EBR Systems, Inc., Renew Medical Pty Ltd, Serene Medical Pty Ltd, Brain Protection Company Pty Ltd and Simplify Medical Pty Ltd. Mr. Moody received his B.S. in Engineering from the University of Southern Queensland, Australia, and his M.S. in Management from the Massachusetts Institute of Technology (Sloan School). Our board of directors believes that Mr. Moody's experience, with over 25 years in the development, commercialization and funding of innovative, growth-oriented medical technologies, qualifies him to serve on our board of directors.

Stephen L. Ondra, M.D. will assume service as a director upon effectiveness of the registration statement to which this prospectus is a part. Dr. Ondra is Chief Executive Officer of North Star Healthcare Consulting, a healthcare technology consulting company that he founded in 2017. From 2013 to 2016, Dr. Ondra served as Senior Vice President and Chief Medical Officer of Health Care Service Corporation, the largest customer-owned health insurance company in the United States, which operates as Blue Cross and Blue Shield in Illinois, Montana, New Mexico, Oklahoma and Texas. Prior to his move to the payer sector, from 2012 to 2013, Dr. Ondra served as Senior Vice President and Chief Medical Officer of Northwestern Memorial Hospital. Dr. Ondra had left Northwestern in 2009 when he was appointed by President Obama as the Senior Policy Advisor for Health Affairs of the U.S. Department of Veterans Affairs. He was detailed to the Executive Office of the President of the United States from 2010 to 2012. At the White House, he served in several positions, including Co-Chair of the National Science and Technology Council for Health Information Technology, as a member of the Federal Health Information Technology Policy and Standards Committees, and as a member of the Implementation Deputy Group for the Affordable Care Act. In 2015, Dr. Ondra was appointed to be a member of the Guiding Committee of the Department of Health and Human Services Health Care Payment — Learning and Action Network. He also has served as an adjunct senior fellow at the Center for a New American Society from 2015 to 2018. A Board Certified Neurosurgeon, Dr. Ondra was a Professor of Neurosurgery and Residency Program Director at Northwestern University's Feinberg School of Medicine from 1996 to 2009. He has also served as the interim chair of Neurological Surgery at Northwestern. Dr. Ondra is a Trustee of Illinois Wesleyan University and has served on the board of TriWest Healthcare Alliance, the Louis W. Sullivan Institute for Healthcare Transformation, and was Chair of the scientific advisory boards of the Defense Spinal Cord/Column Injury and the Spine Blast Injury of the Department of Defense. Dr. Ondra attended the U.S. Military Academy and completed pre-medical studies at Illinois Wesleyan University, obtaining his B.A. He then received his M.D. from Rush Medical College in Chicago and subsequently completed residency training in Neurosurgery at the Walter Reed Army Medical Center in Washington D.C. As

an U.S. Army physician, Dr. Ondra served with distinction in Operations Desert Shield and Desert Storm and was awarded Bronze Star and Army Commendation Medals. We believe Dr. Ondra is qualified to serve on our board due to his expertise and achievements in medicine, medical policy, health information technology and innovation, as well as his keen understanding of healthcare policy and complex healthcare delivery systems, which has made him a source of counsel for numerous CEOs, health care executives and policymakers in the United States and internationally.

Michael W. Ross has served on our board of directors since March 2018. Since October 2016, Mr. Ross has served on the board of directors of Fresco Foods Inc., a company in the food and beverage industry. Mr. Ross has worked for the Vinik Family Office since September 2017, directing the financial and operating strategies of private equity portfolio companies. Prior to his role with the Vinik Family Office, from January 2004 to August 2017, Mr. Ross independently provided strategic and financial consulting and executive management to various small to mid-size companies. During his employment with Publix Super Markets, Inc. from 2000 to 2005, he held the position of manager of business analysis, providing analytical support to corporate strategy initiatives. From March 2013 to May 2016, he served as a strategy consultant and CFO to JJ Virgin & Associates, a nutrition, health and wellness company. From January 2014 to June 2014, Mr. Ross acted as CEO of Thunderbolt International, Inc., a company engaged in the design, manufacture, and sale of specialized electronics. Mr. Ross obtained a B.S. in mechanical engineering from Case Western Reserve University and his MBA in finance, MIS, and Marketing Strategy from the University of South Florida. Our board of directors believes that Mr. Ross' background and experience as a CEO and CFO of various companies qualifies him to serve on our board of directors. Mr. Ross will resign from our board at or prior to the effectiveness of the registration statement to which this prospectus is a part.

David M. Rubin, Ph.D. has served as a member of our board of directors since March 2013. Dr. Rubin is currently a managing director at GHI, where he is responsible for identifying investment opportunities in emerging health care solutions and services, with a particular emphasis on oncology and infectious disease digital health. Prior to joining GHI, Dr. Rubin was portfolio director for Merck & Co.'s MRL Oncology franchise. Dr. Rubin joined Merck in 2007 from Cognia Corporation, a venture-backed research and development software and content products company, where he was the president and chief executive officer. Previously, Dr. Rubin was at The Wilkerson Group/IBM Global Services. Dr. Rubin previously served on the board of VirtualScopics, Inc. (Nasdaq: VSCP) from 2012 through 2014. Dr. Rubin currently serves on the boards of directors of OpGen, Inc., (Nasdaq: OPGN) and Navigating Cancer, Inc. Dr. Rubin was a National Institute of Health and American Cancer Society post-doctoral fellow at Harvard Medical School. Dr. Rubin also received training in post graduate business at Harvard University. Dr. Rubin holds a Ph.D. from Temple University in Molecular Biology and a B.A. from SUNY Binghamton in Biology. Dr. Rubin's extensive background working with precision medicine and diagnostic companies, his investing experience, his current executive position with Merck GHI and scientific background qualify Dr. Rubin to serve on to our board of directors. Dr. Rubin will resign from our board at or prior to the effectiveness of the registration statement to which this prospectus is a part.

James L.L. Tullis has served as a member of our board of directors since July 2014. Mr. Tullis founded Tullis Health Investors, a venture capital firm specializing in investments in the healthcare industry, in 1986, and has served as its Chief Executive Officer since its inception. Prior to that, Mr. Tullis was a Senior Vice President at E.F. Hutton & Co., a stock brokerage firm, and a principal at Morgan Stanley & Co., where he worked with the healthcare investment research and banking teams. Mr. Tullis has served as a member of the board of directors since 2006, and as chairman of the board of directors, since 2017, of Lord Abbett Mutual Funds. Since 1998, he has also served as a member of the board of directors of Crane Co., an industrial products manufacturing company. Since March 2018, Mr. Tullis has been a member of the board of directors of ATEC Spine, a provider of spine surgery solutions. Mr. Tullis also currently serves as a member of the board of directors of several private companies, including LivHOME, Inc., an at-home senior care company, SupplyPro, Inc., an inventory management solutions company, and Exagen Diagnostics, Inc., a diagnostics company focused on autoimmune rheumatic diseases. Mr. Tullis holds a B.A. from Stanford University and an M.B.A. from Harvard Business School. Mr. Tullis' extensive experience serving as a venture capitalist and board member for

numerous companies in the health care industry contributed to our board of directors' conclusion that Mr. Tullis should serve as a director of our company.

Board Composition

Our board of directors currently consists of eight members. The current members of our board of directors have been designated pursuant to the Operating Agreement. The Operating Agreement provides (subject to certain conditions and qualifications specified therein relating to securities ownership and otherwise) that our board is composed of:

- one director designated by each of our founding investors, Joseph P. Errico, Dr. Thomas J. Errico, and Kathryn K. Theofilos, two of such seats being filled by Joseph P. Errico and Dr. Thomas J. Errico and one seat being vacant;
- one director designated by Merck GHI, for which Dr. David M. Rubin has been designated;
- one director designated by Core Ventures II, LLC, for which Nicholas Colucci has been designated;
- · one director designated by AIH-Electro, LLC, for which Michael W. Ross has been designated; and
- three other directors designated by the holders of a majority of our outstanding membership units, who have designated Francis R. Amato, Trevor J. Moody and James L.L. Tullis.

The Operating Agreement will terminate upon the completion of the corporate conversion and, thereafter, our directors will be elected by the vote of our common stockholders. Under our bylaws to be effective upon the completion of the corporate conversion, the number of directors will be determined from time to time by our board of directors.

Each of the current members of our board of directors other than Michael W. Ross and David M. Rubin, Ph.D., is expected to serve as a director following the corporate conversion and completion of this offering. Each of Michael G. Atieh, Carrie S. Cox and Stephen L. Ondra will assume service as a director upon effectiveness of the registration statement to which this prospectus is a part. At such time, Carrie S. Cox will assume the role of Chairman of our board of directors.

There are no family relationships among any of our directors and executive officers, except that Dr. Thomas J. Errico is the uncle of Joseph P. Errico.

Classified Board of Directors

In accordance with our certificate of incorporation to be effective upon the completion of the corporate conversion, our board of directors will be divided into three classes with staggered, three-year terms. At each annual meeting of stockholders, the successors to directors whose terms then expire will be elected to serve from the time of election and qualification until the third annual meeting following their election. Effective upon the consummation of this offering, we expect that our directors will be divided among the three classes as follows:

- the Class I directors will be Michael G. Atieh, Stephen L. Ondra, M.D., and Francis R. Amato, and their terms will expire at our first annual meeting of stockholders following this offering;
- the Class II directors will be Trevor J. Moody, James L.L. Tullis, and Joseph P. Errico, and their terms will expire at our second annual
 meeting of stockholders following this offering; and
- the Class III directors will be Nicholas Colucci, Carrie S. Cox, and Thomas J. Errico, M.D., and their terms will expire at our third annual meeting of stockholders following this offering.

Pursuant to our certificate of incorporation to be effective upon the completion of the corporate conversion, only our board of directors will be able to fill vacancies on our board of directors until the next succeeding

annual meeting of stockholders. Any additional directorships resulting from an increase in the number of directors will be distributed among the three classes so that, as nearly as possible, each class will consist of one-third of the directors.

The classification of our board of directors may have the effect of delaying or preventing changes in our control or management. See "Description of Capital Stock — Anti-Takeover Provisions — Our Certificate of Incorporation and Bylaws."

Director Independence

In connection with this offering, we have applied to list our common stock on The Nasdaq Global Select Market, or Nasdaq. Under Nasdaq rules, independent directors must comprise a majority of our board of directors within a specified period of the completion of this offering. In addition, Nasdaq rules require that, subject to specified exceptions, each member of a listed company's audit, compensation and nominating and governance committees be independent. Under Nasdaq rules, a director will only qualify as an "independent director" if, in the opinion of that company's board of directors, that person does not have a relationship that would interfere with the exercise of independent judgment in carrying out the responsibilities of a director.

Audit committee members must also satisfy the independence criteria set forth in Rule 10A-3 under the Exchange Act. In order to be considered independent for purposes of Rule 10A-3, a member of an audit committee of a listed company may not, other than in his or her capacity as a member of the audit committee, the board of directors or any other board committee: (i) accept, directly or indirectly, any consulting, advisory or other compensatory fee from the listed company or any of its subsidiaries; or (ii) be an affiliated person of the listed company or any of its subsidiaries.

Our board of directors has undertaken a review of the independence of each director and considered whether each director has a material relationship with us that could compromise his ability to exercise independent judgment in carrying out his responsibilities. As a result of this review, our board of directors has determined that each of our directors other than Messrs. Amato and Joseph P. Errico, are "independent directors" as defined under the applicable rules and regulations of the SEC, and the listing requirements and rules of Nasdaq. In making these determinations, our board of directors has reviewed and discussed information provided by the directors and us with regard to each director's business and personal activities and relationships as they may relate to us and our management, including the beneficial ownership of our capital stock by each non-employee director and the transactions involving them described in the section entitled "Certain Relationships and Related-Party Transactions."

Audit Committee

Effective as of the date the registration statement of which this prospectus is part is declared effective, we will establish an audit committee to consist of Michael G. Atieh, Carrie S. Cox, and James L.L. Tullis, with Mr. Atieh serving as chairman. Our board of directors has affirmatively determined that each member of the audit committee meets the definition of "independent director" for purposes of the rules and the independence requirements of Rule 10A-3 of the Exchange Act. Our board of directors will also determine which member qualifies as an "audit committee financial expert" under SEC rules and regulations.

Our audit committee will be responsible for, among other matters:

- appointing, compensating, retaining, evaluating, terminating and overseeing our independent registered public accounting firm;
- discussing with our independent registered public accounting firm their independence from management;
- · reviewing with our independent registered public accounting firm the scope and results of their audit;

- approving all audit and permissible non-audit services to be performed by our independent registered public accounting firm;
- overseeing the financial reporting process and discussing with management and our independent registered public accounting firm the interim and annual financial statements that we file with the Securities and Exchange Commission;
- reviewing and monitoring our accounting principles, accounting policies, financial and accounting controls and compliance with legal and regulatory requirements;
- establishing procedures for the confidential anonymous submission of concerns regarding questionable accounting, internal control or auditing matters; and
- reviewing and approving related person transactions.

Our board of directors has adopted a written charter for the audit committee, which will be available on our website.

Compensation Committee

Effective as of the date the registration statement of which this prospectus is part is declared effective, we will reconstitute our compensation committee to consist of Nicholas Colucci, Thomas J. Errico, M.D., and Trevor J. Moody, with Mr. Colucci serving as chairman. Our board of directors has affirmatively determined that each member of the reconstituted compensation committee meets the heightened definition of "independent director" for purposes of the Nasdaq rules applicable to members of the compensation committee, and the definition of "non-employee director" for purposes of Section 16 of the Exchange Act.

The compensation committee will be responsible for, among other matters:

- establishing and approving, and making recommendations to the board of directors regarding, performance goals and objectives relevant to the compensation of our chief executive officer, evaluating the performance of our chief executive officer in light of those goals and objectives and recommending to the full board of directors for approval, the chief executive officer's compensation, including incentive-based and equity-based compensation, based on that evaluation;
- setting the compensation of our other executive officers, based in part on recommendations of the chief executive officer;
- reviewing and approving, and making recommendations to the board of directors regarding, employment agreements, severance
 arrangements and change of control agreements for the chief executive officer and other executive officers, as appropriate;
- exercising administrative authority under our stock plans and employee benefit plans;
- establishing policies and making recommendations to our board of directors regarding director compensation;
- · reviewing compensation plans, programs and policies; and
- handling such other matters that are specifically delegated to the compensation committee by the board of directors from time to time.

Our board of directors has adopted a written charter for the compensation committee, which will be available on our website.

Nominating and Governance Committee

Effective as of the date the registration statement of which this prospectus is part is declared effective, we will establish a nominating and governance committee to consist of Nicholas Colucci, Thomas J. Errico, M.D., and Stephen L. Ondra, M.D., with Dr. Errico serving as chairman.

The nominating and governance committee will be responsible for, among other matters:

- · annually reviewing the list of director selection criteria contained in our corporate governance necessary or appropriate changes thereto;
- identifying, reviewing and evaluating candidates, including candidates submitted by stockholders, for election to our board of directors and recommending to our board of directors (i) nominees to fill vacancies or new positions on our board of directors and (ii) the slate of nominees to stand for election by our stockholders at each annual meeting of stockholders;
- annually recommending to our board of directors (i) the assignment of directors to serve on each committee; (ii) the chairperson of each committee and (iii) the chairperson of our board of directors or lead independent director, as appropriate;
- developing, recommending, overseeing the implementation of and monitoring compliance with, our corporate governance guidelines, and periodically reviewing and recommending any necessary or appropriate changes to our corporate governance guidelines;
- reviewing the adequacy of our certificate of incorporation and bylaws and recommending to our board of directors, as conditions dictate, amendments for consideration by the stockholders;
- reviewing our code of business conduct and ethics and recommending any changes to our board of directors; and
- such other matters as directed by our board of directors.

Our board of directors has adopted a written charter for the nominating and governance committee, which will be available on our website.

Role of the Board of Directors in Risk Oversight

One of the key functions of our board of directors is informed oversight of our risk management process. The board of directors does not have a standing risk management committee, but rather administers this oversight function directly through the board of directors as a whole, as well as through various standing committees of our board of directors that address risks inherent in their respective areas of oversight. In particular, our board of directors is responsible for monitoring and assessing strategic risk exposure and following this offering our audit committee will have the responsibility to consider and discuss our major financial risk exposures and the steps our management has taken to monitor and control these exposures, including guidelines and policies to govern the process by which risk assessment and management is undertaken. The nominating and governance committee will monitor compliance with legal and regulatory requirements and the effectiveness of our corporate governance practices, including whether they are successful in preventing illegal or improper liability-creating conduct. Our nominating and governance committee will also be responsible for overseeing our risk management efforts generally, including the allocation of risk management functions among our board of directors and its committees. Our compensation committee will assess and monitor whether any of our compensation policies and programs has the potential to encourage excessive risk-taking. Our audit committee will periodically review the general process for the oversight of risk management by our board of directors.

Compensation Committee Interlocks and Insider Participation

As of the effectiveness of the registration statement to which this prospectus is a part, none of the members of our compensation committee will have been at any time during the prior three years one of our officers or employees. As of such effectiveness, none of our executive officers will serve, or have served in the past fiscal year, as a member of the board of directors or compensation committee of any third party that has one or more executive officers serving on our board of directors or compensation committee.

Code of Business Conduct and Ethics

Prior to the effectiveness of the registration statement to which this prospectus is a part, we will adopt a written code of business conduct and ethics that applies to our directors, officers and employees, including our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions. A copy of the code will be posted on our website, which is located at <code>www.electrocore.com</code>. If we make any substantive amendments to, or grant any waivers from, the code of business conduct and ethics for any officer or director, we will disclose the nature of such amendment or waiver on our website or in a current report on Form 8-K. We do not incorporate the information on or accessible through our website into this prospectus, and you should not consider any information on, or that can be accessed through, our website as part of this prospectus.

EXECUTIVE AND DIRECTOR COMPENSATION

Executive Compensation

This section discusses the material components of the executive compensation program offered to our named executive officers and our Chief Financial Officer, whom we refer to as our "NEOs." For 2017, our NEOs were:

- Francis R. Amato, Chief Executive Officer, Director;
- Joseph P. Errico, Chief Science and Strategy Officer, Director;
- · Peter S. Staats, M.D., Chief Medical Officer; and
- Glenn S. Vraniak, Chief Financial Officer.

This discussion may contain forward-looking statements that are based on our current plans, considerations, expectations and determinations regarding future compensation programs. Actual compensation programs that we adopt following the closing of this offering may differ materially from the currently planned programs summarized in this discussion.

We are an "emerging growth company," within the meaning of the JOBS Act, and have elected to comply with the reduced compensation disclosure requirements available to emerging growth companies under the JOBS Act. See "Prospectus Summary — Implications of Being an Emerging Growth Company."

2017 Summary Compensation Table

Name and Principal Position	Year	Salary (\$)	Bonus (\$)(1)	Option Awards (\$)(2)	Non-equity incentive plan compensation (\$)(3)	All Other Compensation (\$)(4)	Total (\$)
Francis R. Amato Chief Executive Officer, Director	2017	400,000	70,000	156,469	125,000	16,369	767,838
Joseph P. Errico Chief Science & Strategy Officer, Director	2017	350,000	70,000	104,838	_	16,369	541,207
Peter S. Staats, M.D. Chief Medical Officer	2017	151,667(5)	10,000	30,000	_	6,820	198,487
Glenn S. Vraniak Chief Financial Officer	2017	300,000	35,000	52,419	_	16,369	403,778

- 1) Represents discretionary cash bonuses approved by the compensation committee of our board of directors for performance during 2017.
- (2) Represents the grant date fair value of Common Units issued as Profits Interests in Electrocore, LLC computed in accordance with FASB ASC 718. See Note 13 to the consolidated financial statements for the fiscal year ended December 31, 2017 included with this prospectus for a description of the assumptions used in valuing our Common Units. These Common Units are intended to constitute profits interests for U.S. federal income tax purposes. Despite the fact that the Common Units that are intended to constitute Profits Interests do not require the payment of an exercise price, for purposes of this table we believe they are most similar economically to stock options and are properly classified as "options" under the definition provided in Item 402(a)(6)(i) of Regulation S-K as an instrument with an "option-like feature."
- (3) Represents a contingent cash bonus paid to Mr. Amato following receipt by us of the FDA grant of our *de novo* application and the closing of our Series B Preferred Unit financing, as discussed below under "— Narrative Disclosure to Summary Compensation Table."
- (4) These amounts consist of payments of health care premiums and contributions to health savings accounts on behalf of the NEO.

(5) Represents a prorated amount of base salary earned by Dr. Staats beginning upon his commencement of employment on May 1, 2017. Pursuant to his employment agreement, Dr. Staats was entitled to an annual base salary of \$140,000 for the three calendar months beginning May 1, 2017, and an annual base salary of \$280,000 beginning August 1, 2017.

Narrative Disclosure to Summary Compensation Table

The primary elements of compensation for our NEOs are base salary, annual discretionary bonuses, performance bonuses and equity compensation awards. The NEOs also participate in employee benefit plans and programs that we offer to our other full-time employees on the same basis.

Base Salaries

We pay our NEOs a base salary to compensate them for the satisfactory performance of services rendered to us. The base salary payable to each NEO is intended to provide a fixed component of compensation reflecting the executive's skill set, experience, role and responsibilities. Base salaries for our NEOs have generally been set at levels deemed necessary to attract and retain individuals with superior talent. No changes to the base salaries of our NEOs occurred for 2017.

Performance Bonuses

We offer our NEOs the opportunity to earn annual discretionary cash bonuses, as determined by our board of directors or the compensation committee annually at their discretion. Actual bonus amounts for our NEOs are determined by our compensation committee after consideration of Mr. Amato and Mr. Errico's recommendations (except with respect to their individual bonuses).

For 2017, annual bonuses were based on such factors as the board and the compensation committee deemed appropriate, including the FDA grant of our *de novo* approval, successful completion of our Series B Preferred Unit financing and the individual NEO's performance as it relates to his area of responsibility. In addition, Mr. Amato received a contractual bonus award required by his employment offer letter.

Equity Compensation

We have granted equity awards to our employees, including our NEOs, as the long-term incentive component of our compensation program. Historically, these awards have consisted of Common Units in Electrocore, LLC that were granted to employees when they commence employment with us. Our Board and Compensation Committee have also from time to time granted additional awards to key employees as they determined appropriate to motivate, retain or reward such employees. These Common Unit grants are intended to qualify as Profits Interests for U.S. federal income tax purposes entitling the holder to participate in our future appreciation from and after the date of grant of the applicable Common Units.

Profits Interests granted to our NEOs are typically subject to time-based vesting conditions and may be subject to accelerated vesting in certain circumstances, including as described below in the sections titled "Unit Forfeiture Agreements" and "—Potential Payments Upon a Change in Control."

In connection with his elevation to Chief Executive Officer in July 2016 and as additional incentive to retain his services, Mr. Amato was granted 3,500,000 Profits Interests to bring his ownership percentage in the company to 3%, together with certain anti-dilution protection to maintain his ownership at 3% through the final closing of our Series B Preferred Unit financing. Pursuant to such anti-dilution rights, Mr. Amato was granted, in the aggregate, an additional 7,942,573 Profits Interests in 2017 taking into account the final closings of our Series B Preferred Unit financing.

In July 2016, as additional incentive to retain his services, Mr. Errico was granted 1,700,000 Profits Interests, together with certain anti-dilution protection such that 2,400,000 of his Common Units would, as of the final closing of our Series B Preferred Unit financing, represent no less than 2% of our total outstanding capitalization. Pursuant to such anti-dilution rights, Mr. Errico was granted, in the aggregate, an additional 5,321,715 Profits Interests in 2017 taking into account the final closings of our Series B Preferred Unit financing.

In connection with Dr. Staats becoming our Chief Medical Officer on May 1, 2017, Dr. Staats was granted 1,500,000 Profits Interests.

In connection with the hiring of Mr. Vraniak in July 2016 as our Chief Financial Officer, he was granted (i) 225,000 Profits Interests in lieu of his cash salary for the six-month period August 15, 2016 through December 31, 2016, and (ii) 1,700,000 Profits Interests, together with certain anti-dilution protection such that 1,700,000 of his Common Units would, as of the final closing of our Series B Preferred Unit financing, represent no less than 1% of our total outstanding capitalization. Pursuant to such anti-dilution rights, Mr. Vraniak was granted in the aggregate an additional 2,660,858 Profits Interests in 2017 taking into account the final closings of our Series B Preferred Unit financing.

Refer to the Outstanding Equity Awards as of December 31, 2017 table below for a description of the vesting terms that apply to these awards.

In connection with this offering, we intend to adopt the 2018 Plan, to facilitate the grant of equity-based incentives to our directors, employees (including our NEOs) and consultants and to enable us to obtain and retain the services of these individuals, which we believe is essential to our long-term success. For additional information about the 2018 Plan, refer to the section titled "—2018 Incentive Award Plan" below.

Retirement, Health, Welfare and Additional Benefits

Our NEOs are eligible to participate in our employee benefit plans and programs, including medical and dental benefits and flexible spending accounts, to the same extent as our other full-time employees, subject to the terms and eligibility requirements of those plans. We also sponsor a 401(k) defined contribution plan in which our NEOs may participate, subject to limits imposed by the Internal Revenue Code, to the same extent as our other full-time employees. Currently, we do not match any of the contributions made by participants in the 401(k).

Outstanding Equity Awards as of December 31, 2017

The following table sets forth information with respect to outstanding Profits Interests awards for each of our NEOs as of December 31, 2017. For the Profits Interests, the table reflects both vested and unvested units. Profits Interests are subject to time-based vesting and to an additional requirement that a minimum valuation threshold be met before the holder of the Profits Interests is entitled to a distribution in respect of such award.

In connection with the corporate conversion, outstanding Profits Interests of our NEOs will be converted into (i) shares of our common stock, and (ii) provided the NEO is an employee at the time of the conversion, options to purchase our common stock. The number of shares of common stock and the number of options to be issued to each such NEO in respect of his Profits Interests will be determined based upon the appreciation in our value after the date of grant of the applicable Profits Interest through the completion of this offering. The exercise price of these options will be equal to the offering price. Following the corporate conversion, the vesting provisions applicable to the Profits Interests as in effect prior to the corporate conversion will apply, in substantially the same manner, to the shares of common stock and options issued in respect of such Profits Interests in the conversion.

	Option Awards			
Name	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Options (#) Unexercisable	Option Exercise Price (\$) (1)	Option Expiration Date
Francis R. Amato	700,000	0	\$ 2.75	
	300,000	0	\$ 0.74	_
	200,000	0	\$ 0.74	_
	200,000	0	\$ 0.85	_
	120,000	120,000(2)	\$ 0.38	_
	1,312,500	2,187,500(2)	\$ 0.38	_
	1,846,648	3,077,747(3)	\$ 0.21	_
	1,131,817	1,886,361(3)	\$ 0.35	_
Joseph P. Errico	80,000	0	\$ 2.00	_
	1,400,000	0	\$ 0.74	_
	637,500	1,062,500(2)	\$ 0.38	_
	1,237,299	2,062,164(3)	\$ 0.21	_
	758,345	1,263,908(3)	\$ 0.35	_
Peter S. Staats, M.D.	80,000	0	\$ 2.00	_
	350,000	450,000(2)	\$ 0.38	_
	0	1,500,000(2)	\$ 0.17	_
Glenn S. Vraniak	637,500	1,062,500(2)	\$ 0.38	_
	225,000	0	\$ 0.38	_
	618,650	1,031,083(3)	\$ 0.21	_
	379,172	631,954(3)	\$ 0.35	_

⁽¹⁾ These Common Units were issued as "profits interests" for U.S. federal income tax purposes and do not require the payment of an exercise price, but rather entitle the holder to participate in our future appreciation from and after the date of grant of the applicable Common Units. Despite this, for purposes of this table we believe they are most similar economically to stock options and are properly classified as "options" under the definition provided in Item 402(a)(6)(i) of Regulation S-K as an instrument with an "option-like feature." The prices reflected in this column represent the fair market value of our Common Units on the date on which the Profits Interests were granted.

⁽²⁾ The awards vest as to 25% of such grant on the one year anniversary of the vesting commencement date and quarterly thereafter in equal installments until fully vested at the fourth anniversary of such award subject to accelerated vesting in certain circumstances as described below under "— Unit Forfeiture Agreements", or Standard Vesting Schedule.

⁽³⁾ These awards represent grants in satisfaction of certain anti-dilution protection in favor of certain NEOs. See "— Employment Agreements with Our Named Executive Officers" above. The awards vest in accordance with our Standard Vesting Schedule, but the vesting commencement date for these awards began on the date on which the NEO received a right to anti-dilution protection as described above.

Effect of the Corporate Conversion and this Offering

Refer to "Management's Discussion and Analysis of Financial Condition and Results of Operations—Statutory Corporate Conversion" for more information regarding the distribution of our common stock to employees, including our NEOs, in respect of their holdings of our Common Units at the time of the corporate conversion.

Employment Agreements with Our Named Executive Officers

Francis R. Amato

On July 3, 2012, we entered into an employment agreement with Mr. Amato, or the Prior Amato Agreement, providing for base salary, annual target cash bonus opportunity, and standard employee benefit plan participation. In July 2016, we entered into an amended and restated employment agreement, or the Amato Agreement, which superseded and replaced the Prior Amato Agreement in its entirety. Mr. Amato's base salary currently is \$400,000 with an annual target cash bonus opportunity of up to 17.5% of his annual base salary, payable solely at the discretion of our board of directors. Please see the section above entitled "—2017 Summary Compensation Table—Performance Bonuses" for a further description of the annual bonus awarded to Mr. Amato for 2017. Under the Amato Agreement, Mr. Amato's employment is terminable at-will and is subject to our standard confidential information and invention assignment provisions and certain non-competition covenants during Mr. Amato's employment with us and, with respect to the non-competition covenant, a period of one year after Mr. Amato's termination.

Under the Amato Agreement, in the event Mr. Amato's employment is terminated by us other than for "cause" (as defined below) or as a result of Mr. Amato's resigning for "good reason" (as defined below), then Mr. Amato will receive (i) a severance payment equal to six months of Mr. Amato's base salary, payable in equal monthly installments as salary continuation, and (ii) payment or reimbursement by us of COBRA premiums for up to six months.

Under the Amato Agreement, Mr. Amato was granted certain Profits Interests, together with certain anti-dilution protection. See "Equity Compensation" above.

For purposes of the Amato Agreement, "cause" means: (i) Mr. Amato's gross negligence or willful misconduct in the performance of Mr. Amato's duties; (ii) the conviction of, or plea of guilty or nolo contendere to, the commission of a felony by Mr. Amato; (iii) the commission of an act of fraud or embezzlement by Mr. Amato against us; or (iv) Mr. Amato's breach of any material provision of the Amato Agreement.

For purposes of the Amato Agreement, "good reason" means: (i) a material adverse change in Mr. Amato's position, duties, responsibilities, or status with our company; (ii) a material breach by us of any provision of the Amato Agreement, including without limitation, any reduction in Mr. Amato's base salary other than in connection with an across the board salary reduction by us for senior management due to material cash flow problems; or (iii) without Mr. Amato's consent, relocation of his principal business location by us outside of the northern New Jersey/New York metropolitan area.

The Amato Agreement will be terminated effective on the date the registration statement of which this prospectus is part is declared effective and he will sign a Confidentiality and Assignment Agreement which, will include certain non-competition and non-solicitation covenants. Following the termination of the Amato Agreement, Mr. Amato will continue his employment on an at-will basis subject to the terms of the Executive Severance Policy that will be adopted by us concurrently with the termination of the Amato Agreement. See "— Executive Severance Policy" below. At that time, Mr. Amato's base salary will be increased to \$475,000 with an annual target cash bonus opportunity of up to 60% of his annual base salary, payable solely at the discretion of our board of directors. Upon completion of this offering, Mr. Amato will be entitled to a cash bonus of \$150,000.

Joseph P. Errico

On March 28, 2013, we entered into an employment agreement with Mr. Errico, or the Prior Errico Agreement, providing for base salary, performance bonus opportunity, and standard employee benefit plan participation. In July 2016, we entered into an amended and restated employment agreement, or the Errico Agreement, which superseded and replaced the Prior Errico Agreement in its entirety. Mr. Errico's base salary currently is \$350,000 and he is eligible for a performance bonus payable solely at the discretion of our board of directors. Please see the section above entitled "—2017 Summary Compensation Table — Performance Bonuses" for a further description of the annual bonus awarded to Mr. Errico for 2017. Under the Errico Agreement, Mr. Errico's employment is terminable at-will and is subject to our standard confidential information and invention assignment provisions and certain non-competition covenants during Mr. Errico's employment with us and for the duration that Mr. Errico is receiving severance payments.

Under the Errico Agreement, in the event Mr. Errico's employment is terminated by us other than for "cause" (as defined below) or as a result of Mr. Errico resigning for "good reason" (as defined below), then Mr. Errico will receive (i) a severance payment equal to 12 months of Mr. Errico's base salary, payable in equal monthly installments as salary continuation, and (ii) payment or reimbursement by us of COBRA premiums for up to 12 months.

Under the Errico Agreement, Mr. Errico was granted certain Profits Interests, together with certain anti-dilution protection. See "— 2017 Summary Compensation Table — Equity Compensation" above.

The Errico Agreement will be terminated effective on the date the registration statement of which this prospectus is part is declared effective and he will sign a Confidentiality and Assignment Agreement, which will include certain non-competition and non-solicitation covenants. Following the termination of the Errico Agreement, Mr. Errico will continue his employment on an at-will basis subject to the terms of the Executive Severance Policy that will be adopted by us concurrently with the termination of the Errico Agreement. See "—Executive Severance Policy" below. At that time, Mr. Errico's base salary will be increased to \$415,000 with an annual target cash bonus opportunity of up to 40% of his annual base salary, payable solely at the discretion of our board of directors. Upon completion of this offering, Mr. Errico will be entitled to a cash bonus of \$150,000.

Peter S. Staats, M.D.

On May 1, 2017, we entered into an employment agreement with Dr. Staats, providing for base salary, annual discretionary bonus opportunity, and standard employee benefit plan participation, or the Staats Agreement. In 2017, Dr. Staats' base salary was initially \$140,000 and increased to \$280,000 as of August 1, 2017 and he is eligible for an annual discretionary bonus, as well as reimbursement for expenses associated with continuing medical education credits in connection with maintaining his accreditation as a licensed physician. Please see the section above entitled "— 2017 Summary Compensation Table — Performance Bonuses" for a further description of the annual bonus awarded to Dr. Staats's for 2017. Under the Staats Agreement, Dr. Staats' employment is terminable at-will and is subject to our standard confidential information and invention assignment provisions and certain non-competition covenants during Dr. Staats' employment with us and for a period of six months after Dr. Staats' termination.

The Staats Agreement will be terminated effective on the date the registration statement of which this prospectus is part is declared effective and he will sign a Confidentiality and Assignment Agreement, which will include certain non-competition and non-solicitation covenants. Following the termination of the Staats Agreement, Dr. Staats will continue his employment on an at-will basis subject to the terms of the Executive Severance Policy that will be adopted by us concurrently with the termination of the Staats Agreement. See "—Executive Severance Policy" below. At that time, Dr. Staat's base salary will be increased to \$325,000 with an annual target cash bonus opportunity of up to 40% of his annual base salary, payable solely at the discretion of our board of directors.

Glenn S. Vraniak

On July 25, 2016, we entered into an employment agreement with Mr. Vraniak, providing for base salary, annual performance bonus opportunity, and standard employee benefit plan participation, or the Vraniak Agreement. In 2017, Mr. Vraniak's base salary was \$300,000 and he is eligible for an annual performance bonus opportunity, payable solely at the discretion of our board of directors. Please see the section above entitled "— 2017 Summary Compensation Table — Performance Bonuses" for a further description of the annual bonus awarded to Mr. Vraniak for 2017. Under the Vraniak Agreement, Mr. Vraniak's employment is terminable at-will and is subject to our standard confidential information and invention assignment provisions and certain non-competition covenants during Mr. Vraniak's employment with us and, with respect to the non-competition covenant, a period of one year after Mr. Vraniak's termination.

Under the Vraniak Agreement, in the event Mr. Vraniak's employment is terminated by us other than for "cause" (as defined below) or as a result of Mr. Vraniak's resigning for "good reason" (as defined below), then Mr. Vraniak will receive (i) a severance payment equal to six months of Mr. Vraniak's base salary, payable in equal monthly installments as salary continuation, and (ii) payment or reimbursement by us of COBRA premiums for up to six months.

For purposes of the Errico Agreement and the Vraniak Agreement, "cause" means: (i) the officer's gross negligence or willful misconduct in the performance of his duties to us; (ii) the conviction of, or plea of guilty or nolo contendere to, the commission of a felony by the officer; (iii) the commission by the officer of an act of fraud or embezzlement against us; or (iv) the officer's breach of any material provision of the applicable Agreement, subject to prior written notice to him and a reasonable cure period.

For purposes of the Errico Agreement and the Vraniak Agreement, "good reason" means: (i) a material adverse change in the officer's position, duties, responsibilities, or status with us; (ii) a material breach by us of any provision of his employment agreement, including without limitation, any reduction in his base salary other than in connection with an across the board salary reduction by us for senior management due to material cash flow problems; or (iii) without the officer's consent, relocation of his principal business location by us outside of the northern New Jersey/New York metropolitan area.

The Vraniak Agreement will be terminated effective on the date the registration statement of which this prospectus is part is declared effective and he will sign a Confidentiality and Assignment Agreement, which will include certain non-competition and non-solicitation covenants. Following the termination of the Vraniak Agreement, Mr. Vraniak will continue his employment on an at-will basis subject to the terms of the Executive Severance Policy that will be adopted by us concurrently with the termination of the Vraniak Agreement. See "— Executive Severance Policy" below. At that time, Mr. Vraniak's base salary will be increased to \$330,000 with an annual target cash bonus opportunity of 40% of his annual base salary, payable solely at the discretion of our board of directors. Upon completion of this offering, Mr. Vraniak will be entitled to a cash bonus of \$100,000.

Executive Severance Policy

Effective as of the date the registration statement to which the prospectus is part is declared effective, we will implement an Executive Severance Policy to replace the severance benefits previously provided pursuant to individual employment agreements that will be terminated effective as of such date. Under the Executive Severance Policy, if we terminate an eligible member of our senior management team (including Mr. Amato, Mr. Errico, Dr. Staats or Mr. Vraniak) without "cause" or if the executive resigns for "good reason" (as those terms are defined below), we will provide the following severance benefits: (i) severance payment in an amount equal to six months of base salary (or one year of base salary and target bonus in the case of our Chief Executive Officer or Chief Science and Strategy Officer) payable in equal installments over the six-month or one-year period, as applicable, and (ii) reimbursement of COBRA premiums for group health continuation coverage paid

by the terminated executive for the duration of the "severance period" (as defined below). If the termination without cause or resignation for good reason occurs within two years after a "change in control" we will provide the following severance benefits in lieu of the benefits provided in the previous sentence: (i) a lump sum severance payment in an amount equal to one year of base salary (or one and one-half (1.5) years of the sum of base salary and target bonus in the case of our Chief Executive Officer or Chief Science and Strategy Officer), and (ii) reimbursement of COBRA premiums for group health continuation coverage paid by the terminated executive for the duration of the severance period, and (iii) acceleration of vesting for all outstanding equity compensation and an extension of the period of time to exercise outstanding stock options and stock appreciation rights until the earlier of 150 days following the executive's termination of employment or the original expiration date for such options or stock appreciation rights.

For purposes of the Executive Severance Policy, "cause" means any of the following: (a) the executive's willful failure to fulfill, in any material respect, his or her duties and responsibilities to us (other than by reason of death, illness or disability); (b) the executive's willful misconduct, gross negligence or willful acts of personal dishonesty in the performance of his or her duties to us that directly, materially and demonstrably impairs or damages our property, goodwill, reputation, business or finances; (c) the conviction of, or plea of nolo contendere by, the executive to, a felony or a crime involving moral turpitude that materially and demonstrably impairs or damages our property, goodwill, reputation, business or finances; (d) the executive's commission of fraud or embezzlement against us; (e) the executive's willful or intentional violation of any lawful policy that directly, materially and demonstrably impairs or damages our property, goodwill, reputation, business or finances; or (f) the executive's breach of the terms of any confidentiality and assignment agreement, which contains restrictive covenants in favor of us.

For purposes of the Executive Severance Policy "good reason" means any of the following (a) any material reduction in the executives base annual compensation prior to a "change in control"; provided, however, that a reduction in the executives base annual compensation shall not constitute "good reason" if we reduce the annual base compensation of all participants in the Executive Severance Policy on a substantially equivalent basis; (b) any material reduction in the executive's base annual compensation during the period commencing on or after a "change in control" and ending on the second anniversary of a "change in control"; (c) any material diminution in the executive's authority, duties, offices, title or responsibilities; or (d) a transfer of executive's principal place of employment to a location that is more than 30 miles from the executive's then current principal place of employment.

For purposes of the Executive Severance Policy, "severance period" means the number of months set forth in the table below based on the executive's employment position as the time of his involuntary termination of employment that results in the executive's termination for "good reason":

	Severance Po	eriod
	Prior to a Change in Control	
	or on or After the Second Anniversary	Two-Year Period After a
Employment Position	of a Change in Control	Change in Control
CEO or CSSO:	12 months	18 months
All Other Participants:	6 months	12 months

Unit Forfeiture Agreements

In connection with a grant of our Profits Interests, each of our NEOs enters into a standard form of Unit Forfeiture Agreement, which provides for, among other things, acceleration upon a change in control event, as well as upon death or disability. In the event there is a change of control, then one hundred percent of the NEO's then-unvested Profits Interests will immediately vest, subject to the NEO remaining employed with us until the change in control transaction. Upon an NEO's death, one hundred percent of the NEO's then-unvested Profits

Interests will immediately vest and fifty percent of the NEO's then-unvested Profits Interests will immediately vest upon the NEO's disability, in both instances subject to the NEO remaining employed with us until such date.

Potential Payments Upon a Change in Control

The unvested Profits Interests held by our NEOs vest in full upon a change in control of our company, subject to the NEO remaining employed with us until the change in control transaction.

2017 Operating Agreement

In November 2017, we amended and restated our Operating Agreement. Our Operating Agreement provides for the grant of Common Units that constitute Profits Interests for income tax purposes to our employees (including officers), non-employee consultants and non-employee directors and those of our affiliates. Under our Operating Agreement, our compensation committee has been delegated the authority to administer the Profits Interests in order to provide a means to attract, retain and motivate our directors, employees and consultants upon whose judgment, initiative and efforts our continued success, growth and development are dependent. In addition to the discretion to grant Profits Interests, the compensation committee sets the vesting terms for awards pursuant to a unit forfeiture agreement. Each Profits Interest includes a minimum valuation threshold that must be achieved before the interest is entitled to receive any distributions under the Operating Agreement. As of December 31, 2017, there were 43.1 million issued and outstanding Profits Interests, of which 19.2 million were vested.

Profits Interests are generally issued pursuant to a Unit Forfeiture Agreement as described above.

Upon the corporate conversion, holders of Profits Interests will be converted into (i) shares of our common stock, and (ii) with respect to holders of Profits Interests who are our employees and consultants at the time of the corporate conversion, options to purchase our common stock. The exercise price of these options will be equal to the offering price. The number of shares of common stock and options to purchase common stock to be issued to each such holder will be determined based upon the appreciation in our value after the date of grant of the applicable Profits Interest through the completion of this offering. Following the corporate conversion, the vesting provisions applicable to the Profits Interests as in effect prior to the corporate conversion will apply, in substantially the same manner, to the shares of common stock and options issued in respect of such Profits Interests.

We anticipate that this equity policy under the current Operating Agreement will be replaced by the 2018 Plan.

2018 Omnibus Incentive Compensation Plan

It is currently anticipated that prior to the completion of this offering, our board of directors and our stockholders will adopt the 2018 Plan, which will become effective on the date on which the registration statement of which this prospectus is part is declared effective by the SEC.

General

The 2018 Plan will cover the grant of awards to our employees (including officers), non-employee consultants and non-employee directors and those of our affiliates. For purposes of the 2018 Plan, our affiliates include any corporation, partnership, limited liability company, joint venture or other entity, with respect to which we, directly or indirectly, own either (i) stock of a corporation possessing more than fifty percent (50%) of the total combined voting power of all classes of stock entitled to vote, or more than fifty percent (50%) of the total value of all shares of all classes of stock of such corporation, or (ii) an aggregate of more than fifty percent (50%) of the profits interest or capital interest of any non-corporate entity.

We expect that the compensation committee of the board of directors will administer the 2018 Plan. The committee may delegate any or all of its administrative authority to our Chief Executive Officer or to a management committee except with respect to awards to executive officers who are subject to Section 16 of the Exchange Act. In addition, the full board of directors must serve as the committee with respect to any awards to our non-employee directors.

Up to a maximum of 6.2 million shares of our common stock may be delivered in settlement of awards granted under the 2018 Plan initially. The number of shares authorized for issuance will increase beginning in 2019, and occurring each year thereafter through 2028 by 4% of the number of our shares of common stock issued and outstanding on a fully-diluted basis as of the last day of the preceding fiscal year (or such lesser number of shares as determined by our board of directors in its sole discretion). In no event, however, shall the aggregate number of shares that may be issued pursuant to this annual increase under the 2018 Plan exceed 45.0 million. Up to a maximum of 40.0 million shares of our common stock may be issued under the 2018 Plan pursuant to the exercise of incentive stock options. The stock delivered to settle awards made under the 2018 Plan may be authorized and unissued shares or treasury shares, including shares repurchased by us for purposes of the 2018 Plan. If any shares subject to any award granted under the 2018 plan (other than a substitute award as described below) is forfeited or otherwise terminated without delivery of such shares (or if such shares are returned to us due to a forfeiture restriction under such award), the shares subject to such awards will again be available for issuance under the 2018 Plan. However, any shares that are withheld or applied as payment for shares issued upon exercise of an award or for the withholding or payment of taxes due upon exercise of the award will continue to be treated as having been delivered under the 2018 Plan and will not again be available for grant under the 2018 Plan. Upon settlement of any stock appreciation rights, or SARs, the number of shares underlying the portion of the SARs that is exercised will be treated as having been delivered for purposes of determining the maximum number of shares available for grant under the 2018 Plan and shall not again be treated as available for issuance under the 2018 Plan.

If a dividend or other distribution (whether in cash, shares of common stock or other property), recapitalization, forward or reverse stock split, subdivision, consolidation or reduction of capital, reorganization, merger, consolidation, scheme of arrangement, split-up, spin-off or combination involving us or repurchase or exchange of our shares or other securities, or other rights to purchase shares of our securities or other similar transaction or event affects our common stock such that the committee determines that an adjustment is appropriate in order to prevent dilution or enlargement of the benefits (or potential benefits) provided to grantees under the 2018 Plan, the committee will make an equitable change or adjustment as it deems appropriate in the number and kind of securities subject to awards (whether or not then outstanding) and the related exercise price relating to an award in order to prevent dilution or enlargement of the benefits or potential benefits intended to be made available under the 2018 Plan.

Types of Awards

The 2018 Plan permits the granting of any or all of the following types of awards to all grantees:

- stock options, including incentive stock options, or ISOs;
- · stock appreciation rights, or SARs;
- restricted shares;
- deferred stock and restricted stock units;
- performance units and performance shares;
- dividend equivalents;
- · bonus shares; and
- other stock-based awards.

Generally, awards under the 2018 Plan are granted for no consideration other than prior and future services. Awards granted under the 2018 Plan may, in the discretion of the committee, be granted alone or in addition to, in tandem with or in substitution for, any other award under the 2018 Plan or other plan of ours; provided, however, that if an SAR is granted in tandem with an ISO, the SAR and ISO must have the same grant date and term and the exercise price of the SAR may not be less than the exercise price of the ISO. The material terms of each award will be set forth in a written award agreement between the grantee and us.

Stock Options and SARs

The committee is authorized to grant SARs and stock options (including ISOs except that an ISO may only be granted to an employee of ours or one of our subsidiary corporations). A stock option allows a grantee to purchase a specified number of shares of our common stock at a predetermined price per share (the "exercise price") during a fixed period measured from the date of grant. An SAR entitles the grantee to receive the excess of the fair market value of a specified number of shares on the date of exercise over a predetermined exercise price per share. The exercise price of an option or an SAR will be determined by the committee and set forth in the award agreement but the exercise price may not be less than the fair market value of a share of common stock on the grant date. The term of each option or SAR is determined by the committee and set forth in the award agreement, except that the term may not exceed 10 years. Options may be exercised by payment of the purchase price through one or more of the following means: payment in cash (including personal check or wire transfer), by delivering shares of our common stock previously owned by the grantee, or with the approval of the committee, by delivery of shares of our common stock acquired upon the exercise of such option or by delivering restricted shares. The committee may also permit a grantee to pay the exercise price of an option through the sale of shares acquired upon exercise of the option through a broker-dealer to whom the grantee has delivered irrevocable instructions to deliver sales proceeds sufficient to pay the purchase price to us. The grant of ISOs are contingent upon shareholder approval of the 2018 Plan within 12 months of its adoption by our board of directors.

Restricted Shares

The committee may award restricted shares consisting of shares of our common stock which remain subject to a risk of forfeiture and may not be disposed of by grantees until certain restrictions established by the committee lapse. The vesting conditions may be service-based (i.e., requiring continuous service for a specified period) or performance-based (i.e., requiring achievement of certain specified performance objectives) or both. A grantee receiving restricted shares will have all of the rights of a stockholder, including the right to vote the shares and the right to receive any dividends, except as otherwise provided in the award agreement. Upon termination of the grantee's affiliation with us during the restriction period (or, if applicable, upon the failure to satisfy the specified performance objectives during the restriction period), the restricted shares will be forfeited as provided in the award agreement.

Restricted Stock Units and Deferred Stock

The committee may also grant restricted stock unit awards and/or deferred stock awards. A deferred stock award is the grant of a right to receive a specified number of shares of our common stock at the end of specified deferral periods or upon the occurrence of a specified event, which satisfies the requirements of Section 409A of the Internal Revenue Code. A restricted stock unit award is the grant of a right to receive a specified number of shares of our common stock upon lapse of a specified forfeiture condition (such as completion of a specified period of service or achievement of certain specified performance objectives). If the service condition and/or specified performance objectives are not satisfied during the restriction period, the award will lapse without the issuance of the shares underlying such award.

Restricted stock units and deferred stock awards carry no voting or other rights associated with stock ownership until the shares underlying the award are delivered in settlement of the award. The award agreement

will provide whether grantees may receive dividend equivalents with respect to restricted stock units or deferred stock, and if so, whether such dividend equivalents are distributed when credited or deemed to be reinvested in additional shares of restricted stock units or deferred stock.

Performance Units

The committee may grant performance units, which entitle a grantee to cash or shares conditioned upon the fulfillment of certain performance conditions and other restrictions as specified by the committee and reflected in the award agreement. The initial value of a performance unit will be determined by the committee at the time of grant. The committee will determine the terms and conditions of such awards, including performance and other restrictions placed on these awards, which will be reflected in the award agreement.

Performance Shares

The committee may grant performance shares, which entitle a grantee to a certain number of shares of common stock, conditioned upon the fulfillment of certain performance conditions and other restrictions as specified by the committee and reflected in the award agreement. The committee will determine the terms and conditions of such awards, including performance and other restrictions placed on these awards, which will be reflected in the award agreement.

Bonus Shares

The committee may grant fully vested shares of our common stock as bonus shares on such terms and conditions as specified in the award agreement.

Dividend Equivalents

The committee is authorized to grant dividend equivalents which provide a grantee the right to receive payment equal to the dividends paid on a specified number of shares of our common stock. Dividend equivalents may be paid directly to grantees or may be deferred for later delivery under the 2018 Plan. If deferred such dividend equivalents may be credited with interest or may be deemed to be invested in shares of our common stock or in other property. No dividend equivalents may be granted in conjunction with any grant of stock options or SARs.

Other Stock-Based Awards

In order to enable us to respond to material developments in the area of taxes and other legislation and regulations and interpretations thereof, and to trends in executive compensation practices, the 2018 Plan authorizes the committee to grant awards that are valued in whole or in part by reference to or otherwise based on our securities. The committee determines the terms and conditions of such awards, including consideration paid for awards granted as share purchase rights and whether awards are paid in shares or cash.

Merger, Consolidation or Similar Corporate Transaction

If there is a merger or consolidation of us with or into another corporation or a sale of substantially all of our stock, or, collectively, a Corporate Transaction, and the outstanding awards are not assumed by surviving company (or its parent company) or replaced with economically equivalent awards granted by the surviving company (or its parent company), the committee will cancel any outstanding awards that are not vested and nonforfeitable as of the consummation of such Corporate Transaction (unless the committee accelerates the vesting of any such awards) and with respect to any vested and nonforfeitable awards, the committee may either (i) allow all grantees to exercise options and SARs within a reasonable period prior to the consummation of the Corporate Transaction and cancel any outstanding options or SARs that remain unexercised upon consummation

of the Corporate Transaction, or (ii) cancel any or all of such outstanding awards (including options and SARs) in exchange for a payment (in cash, or in securities or other property) in an amount equal to the amount that the grantee would have received (net of the exercise price with respect to any options or SARs) if the vested awards were settled or distributed or such vested options and SARs were exercised immediately prior to the consummation of the Corporate Transaction. If an exercise price of the option or SAR exceeds the fair market value of our common stock and the option or SAR is not assumed or replaced by the surviving company (or its parent company), such options and SARs will be cancelled without any payment to the grantee.

Amendment to and Termination of the 2018 Plan

The 2018 Plan may be amended, altered, suspended, discontinued or terminated by our board of directors without further stockholder approval, unless such approval of an amendment or alteration is required by law or regulation or under the rules of any stock exchange or automated quotation system on which the common stock is then listed or quoted. Thus, stockholder approval will not necessarily be required for amendments which might increase the cost of the 2018 Plan or broaden eligibility. Stockholder approval will not be deemed to be required under laws or regulations that condition favorable treatment of grantees on such approval, although our board of directors may, in its discretion, seek stockholder approval in any circumstance in which it deems such approval advisable. No ISOs may be awarded after any amendment to the 2018 Plan that either broadens eligibility or increase the number of shares available for delivery in the form of ISOs unless such amendment is approved by our stockholders within 12 months of the date the board of directors approve the adoption of such amendment.

In addition, subject to the terms of the 2018 Plan, no amendment or termination of the 2018 Plan may materially and adversely affect the right of a grantee under any award granted under the 2018 Plan.

Unless earlier terminated by our board of directors, the 2018 Plan will terminate when no shares remain reserved and available for issuance or, if earlier, on the tenth anniversary of the effective date of the 2018 Plan.

Director Compensation

Other than with respect to Mr. Moody as described below, we have historically generally not provided cash retainers to any of our non-employee directors. We have, upon a member joining our Board, granted awards of Profits Interests to our non-employee directors as compensation for their service on our board. We have also, from time to time, granted Profits Interests to certain board members for service on special committees.

2017 Director Compensation Table

The following table provides information regarding the compensation earned during 2017 by our non-executive directors:

Name	Fees Earned or Paid in Cash (\$)		Option Awards (\$)(6)		Total (\$)	
Trevor J. Moody	\$	20,000(1)	\$	0	\$20,	,000
Nicholas Colucci	\$	0	\$	0	\$	0
Thomas J. Errico, M.D.	\$	0	\$	0	\$	0
David M. Rubin, Ph.D.	\$	0	\$	0	\$	0
Peter S. Staats, M.D.(2)	\$	0	\$	0	\$	0
Reese Terry(3)	\$	0	\$	0	\$	0
Kathryn Theofilos(4)	\$	0	\$	0	\$	0
James L.L. Tullis	\$	0	\$	0	\$	0
Jeffrey N. Vinik(5)	\$	0	\$	0	\$	0

⁽¹⁾ Mr. Moody receives \$5,000 per quarter for serving on our board of directors.

- (2) Dr. Staats did not receive any compensation for his service as a director in 2017. Dr. Staats' compensation for his service as our Chief Medical Officer is fully reflected in "—2017 Summary Compensation table" above. Dr. Staats ceased serving as a member of our board of directors in January 2018.
- (3) Mr. Terry served on our board of directors until August 2017.
- (4) Ms. Theofilos served as a member of our board of directors until February 2018.
- (5) Mr. Vinik ceased serving as a member of our board of directors in March 2018. He was replaced by Michael W. Ross, who does not receive compensation for his service as a director.
- (6) Represents the grant date fair value of Common Units issued as Profits Interests in Electrocore, LLC computed in accordance with FASB ASC 718. See Note 13 to the consolidated financial statements for the fiscal year ended December 31, 2016 included with this prospectus for a description of the assumptions used in valuing our Common Units. These Common Units are intended to constitute profits interests for U.S. federal income tax purposes. Despite the fact that the Common Units that are intended to constitute profits interests do not require the payment of an exercise price, we believe they are most similar economically to stock options and are properly classified as "options" under the definition provided in Item 402(a)(6)(i) of Regulation S-K as an instrument with an "option-like feature."

The table below shows the number of vested and unvested Profits Interests, by grant date, held as of December 31, 2017 by each person who served as a non-employee director during the year ended December 31, 2017. The Profits Interests held by Dr. Staats as of December 31, 2017 are reflected in the "Outstanding Awards" table above.

			Profits In Vested and	
Name	Grant Date	Total	Vested	Unvested
Nicholas Colucci	12/1/2017	150,000	0	150,000(1)
Thomas J. Errico, M.D.	1/1/2009	80,000	80,000	0
Trevor J. Moody	4/1/2013	80,000	80,000	0
	9/27/2016	400,000	125,000	275,000(1)
David M. Rubin, Ph.D.	_	_	_	_
Kathryn K. Theofilos	1/1/2009	80,000	80,000	0
Reese Terry	7/5/2014	80,000	80,000	0
	9/27/2016	400,000	400,000	0
James L.L. Tullis	8/1/2014	80,000	80,000	0
Jeffrev N. Vinik	_	_	_	_

⁽¹⁾ Each award vests 25% at the first anniversary of the grant date, and thereafter vests quarterly in equal installments until fully vested at the fourth anniversary. Each award is also subject to acceleration upon a change of control event, as well as upon death or disability as set forth in our standard form of Unit Forfeiture Agreement.

At the effective time of this offering, we intend to implement a Non-Employee Director Compensation Policy, which will provide compensation parameters for our non-employee directors under which each non-employee director will receive the following amounts for their service on our board of directors:

- an inaugural equity award valued at \$200,000 shall be made at the effective time of this offering and upon the earlier of any new
 non-employee director's initial appointment or election to our board of directors. The inaugural grants will vest in three equal annual
 installments at the close of business on the day before each of the next three annual meetings of stockholders following the grant of such
 award;
- at each annual meeting of stockholders, an equity award valued at \$100,000 as of the business day immediately preceding the date of grant, which will vest in a single installment on the next annual meeting of stockholders;

- an annual cash retainer of \$40,000; and
- · if the director serves on a committee of our board of directors, an additional annual retainer as follows:
 - chairman of the audit committee: \$16,000;
 - audit committee member other than the chairman: \$8,000;
 - chairman of the compensation committee: \$10,000;
 - compensation committee member other than the chairman: \$5,000;
 - chairman of the nominating and corporate governance committee: \$7,500; and
 - nominating and corporate governance committee member other than the chairman: \$3,750.

In the event that an independent chairman of the board is elected, his or her annual cash retainer and annual equity awards will be 150% of the annual cash retainer and annual equity awards granted to other non-employee members of our board of directors.

Each director will have an opportunity to elect to receive his or her inaugural and annual equity awards in the form of stock options, deferred stock units that settle upon separation from service with us or restricted stock units that settle upon vesting. Each current director will need make an initial election before the consummation of this offering and new directors will need to make their elections before becoming a director. Such election will remain in effect for future annual equity awards unless and until the director files a new election with us which will become effective with respect to annual equity awards granted in calendar years following the calendar year in which such election is filed.

Annual cash retainers, annual committee membership retainers and annual committee chair retainers will each be payable in 12 monthly installments on the first day of each month provided that no payment shall be made to any director who is no longer serving as a non-employee member of our board on the relevant payment date. No retainer will be paid under the program for service prior to the program's effectiveness.

Each member of our board of directors is entitled to be reimbursed for reasonable travel and other expenses incurred in connection with attending meetings of the board of directors and any committee of the board of directors on which he or she serves.

CERTAIN RELATIONSHIPS AND RELATED PARTY TRANSACTIONS

Other than compensation agreements and other arrangements which are described under "Executive and Director Compensation" and the transactions described below, since January 1, 2016, there has not been, and there is not currently proposed, any transaction or series of similar transactions to which we were or will be a party in which the amount involved exceeded or will exceed \$120,000 and in which any of our directors, executive officers or holders of more than 5% of our capital stock, or 5% Security Holders, or an affiliate or family member thereof, had or will have a direct or indirect material interest.

Participation in this Offering

Certain of our direct and indirect unitholders, including entities affiliated with certain of our directors, have indicated an interest in purchasing an aggregate of \$20.0 million in shares of our common stock in this offering at the initial public offering price per share. Based on an assumed initial public offering price of \$15.00 per share, these holders would purchase up to an aggregate of 1,333,333 of the 4,333,333 shares in this offering based on these indications of interest. However, because indications of interest are not binding agreements or commitments to purchase, these holders may determine to purchase fewer shares than they indicate an interest in purchasing or not to purchase any shares in this offering. It is also possible that these holders could indicate an interest in purchasing more shares of our common stock. In addition, the underwriters could determine to sell fewer shares to any of these holders than the holders indicate an interest in purchasing or not to sell any shares to these holders.

Operating Agreement of Electrocore, LLC

We are party to the Operating Agreement with our current members. The Operating Agreement, which contains provisions relating to membership interests and the right of our members to appoint the members to our board of directors, will terminate upon the closing of this offering. See "Management—Board Composition."

Series A Equity Issuances

In March 2016, we consummated a final closing of our Series A financing pursuant to which we issued approximately 3.0 million Series A Preferred Units at an issue price of \$0.85 per unit, or approximately \$2.6 million in the aggregate. In connection with such closing, GHI, a 5% Security Holder, purchased approximately 1.0 million Series A Preferred Units for \$0.9 million and CV II, a 5% Security Holder, purchased approximately 2.0 million Series A Preferred Units for approximately \$1.7 million, including amounts converted pursuant to a term loan conversion as described below. In addition, CV II exercised an outstanding warrant and acquired approximately 2.3 million Series A Preferred Units for \$1.7 million. Dr. Rubin, one of our directors, serves as a Managing Director of GHI. Mr. Errico and Dr. Errico, two of our directors, have a pecuniary interest in, serve as managers of, and have voting control over CV II.

Term Loan Conversion

In December 2015, CV II loaned us \$1.25 million pursuant to a Loan and Security Agreement. In connection with this loan, we issued 66,177 warrants to CV II to purchase Series A Preferred Units at an exercise price of \$0.85 per unit. These warrants expire on December 22, 2025. Pursuant to the terms of this loan, CV II elected to convert the term loan of \$1.25 million and related accrued interest of \$49,935 into approximately 1.5 million Series A Preferred Units in two installments in March 2016 and September 2016 at a price of \$0.85 per Unit.

Bridge Financing

Beginning in June 2016, we commenced a note and warrant financing, or the Bridge Financing, pursuant to which we issued to investors a convertible promissory note, or Bridge Note, with annual interest of 10%. Each investor in the Bridge Financing was also issued a warrant, or Bridge Warrant, to purchase a number of shares

issued in our next Qualified Equity Financing, or the Next Round Securities, equal to 20% of the original principal amount of the investor's Bridge Note divided by the purchase price payable for such equity securities in the Qualified Equity Financing, or the Next Round Price. The Bridge Notes, together with all accrued interest, were originally automatically convertible upon the closing of the Qualified Equity Financing into the Next Round Securities at a per share price equal to 90% of the Next Round Price, or optionally convertible at any time at the holder's option into our Series A Preferred Units at a price of \$0.85 per unit.

ECNG is a limited liability company in which Mr. Errico and Dr. Errico have a pecuniary interest, which they serve as managers and over which they have voting control. In June and July 2016, ECNG purchased in the aggregate \$1.5 million in Bridge Notes. In September 2016, ECNG converted approximately \$1.5 million in principal and accrued interest under its Bridge Notes into approximately 1.8 million Series A Preferred Units.

Following the Bridge Note conversion noted above, the terms of the Bridge Financing were amended to provide that future investors in the Bridge Financing were entitled to receive, in addition to their Bridge Note and Bridge Warrant, up to two Common Units for each dollar invested in the Bridge Financing.

From September 2016 through June 2017, we raised approximately \$25.6 million from the issuance of additional Bridge Notes and issued approximately 41.9 million Common Units to the bridge investors. In addition, we issued 5.4 million common units to our financial advisor as compensation for its services. Of these amounts, CV II purchased approximately \$16.9 million in Bridge Notes and was issued approximately 33.7 million Common Units.

Series B Financing

Commitment Letter. In July 2017, CV II, GHI, Mr. Tullis, one of our directors, and Tullis Opportunity Fund II, or "TOP II," an entity for which Mr. Tullis serves as the managing partner of its general partner, entered into a commitment letter with us pursuant to which such investors agreed, among other things, to invest in the aggregate approximately \$9.0 million in the initial closing of our Series B Preferred Unit financing and to consent to certain amendments to our Operating Agreement. In exchange for such commitments, the investors were issued two Common Units for each dollar committed. The table below summarizes these issuances.

Investor	Series B Commitment Amount	Common Units Issued
Investor GHI	\$ 5,000,000	10,000,000
CV II	\$ 3,870,000	7,740,000
James L.L. Tullis(1)	\$ 300,000	600,000
	\$ 9,170,000	18,340,000

⁽¹⁾ Includes amounts for TOP II.

Reduction in Preferred Liquidation Preference. In August 2017, in connection with the initial closing of our Series B Preferred Unit financing, among other things, (i) the holders of our Series A Preferred Units agreed to eliminate approximately \$54.9 million in liquidation preference in exchange for the issuance to such holders of approximately 46.9 million Common Units, and (ii) the holders of Common Units that were entitled to approximately \$30.9 million in liquidation preference agreed to eliminate such preference in exchange for the issuance to such holders of approximately 26.4 million Common Units. The table below summarizes the issuances to certain related parties in connection with this transaction.

Common
Units Issued
in Exchange
for Reduction
in Liquidation
Preference
15,384,615
32,818,632
1,304,356
1,442,308

Common

- (1) Includes units issued for the benefit of Mr. Errico, Dr. Errico and Mrs. Theofilos, and their affiliates.
- (2) Includes units issued to TOP II and Mr. Tullis' spouse and family, and trusts for the benefit of his spouse and family.

Initial Series B Closing. In August 2017, we consummated the initial closing of our Series B Preferred Unit financing pursuant to which we issued approximately \$1.3 million Series B Preferred Units for approximately \$35.8 million in the aggregate. Each investor in our Series B financing was issued Series B Preferred Units at a price of \$0.70 per unit, together with a warrant, or Series B Common Warrant, to purchase a number of our Common Units equal to 50% of the original issue price of the Series B Preferred Units purchased by such investor in our Series B Preferred Unit financing, divided by \$1.25. The exercise price for the Common Units purchasable pursuant to the Series B Common Warrants is \$1.25 per unit and the Series B Common Warrants have a five-year term; provided that the Series B Common Warrants will expire upon the closing of this offering, if not previously exercised. The table below summarizes the issuances at our initial Series B closing to certain related parties.

			Common Units Underlying
	Series B	Series B	Series B
Purchaser	Investment Amount	Units Purchased	Common Warrants
GHI	\$ 5,000,000	7,142,858	2,000,000
CV II(1)	\$21,530,416	30,757,737	8,612,166
ECNG, LLC	\$ 990,463	1,414,947	396,185
James L.L. Tullis(2)	\$ 300,000	428,572	120,000

- (1) Includes the conversion of approximately \$17.7 million in principal and accrued interest under outstanding Bridge Notes.
- (2) Includes amounts for TOP II.

Additional Series B Closings. From September through December 2017, we consummated additional closings under our Series B financing pursuant to which we issued in the aggregate an additional approximately 53.9 million Series B Preferred Units at an issue price of \$0.70 per unit, or approximately \$37.8 million in the aggregate. In connection with such closings, certain related parties purchased Series B Preferred Units. Each investor in our additional Series B closings was issued a Series B Common Warrant in the form of the initial Series B Preferred Unit closing, except that the terms of the Series B Preferred Units financing were amended to provide that for any investor who, together with its affiliates, purchased not less than \$15.0 million of Series B

Preferred Units (excluding amounts purchased at the initial Series B closing), the Series B Common Warrant coverage amount for such investor was increased from 50% to 100%. The table below summarizes the issuances at our additional Series B closings to certain related parties.

Purchaser	Series B Investment Amount	Series B Preferred Units Purchased	Underlying Series B Common Warrants
American Investment Holdings(1)	\$11,000,000	15,714,286	8,800,000
Vinik Family Foundation(1)	\$ 4,000,000	5,714,286	3,200,000
CV II	\$ 8,400,000	12,000,000	3,360,000

⁽¹⁾ American Investment Holdings and Vinik Family Foundation are affiliates of Jeffrey N. Vinik, who served as one of our directors during 2017 and resigned in March 2018. AIH-Electro, LLC designated Michael W. Ross to replace Mr. Vinik on our board of directors in March 2018.

Investor Rights Agreement

Pursuant to the terms of our Amended and Restated Investor Rights Agreement, certain holders of our units, including CV II, GHI, ECNG, TOP II, Mr. Errico, Dr. Errico, Mrs. Theofilos, and certain of their affiliates, are entitled to certain demand and piggyback registration rights with respect to our securities held by them, certain information and observer rights, and certain additional rights. Certain provisions of the investor rights agreement will terminate in connection with this offering. See "Description of Capital Stock" for additional information.

Agreement with Publicis Healthcare Solutions, Inc.

We are a party to a master services agreement with Publicis Healthcare Solutions, Inc., or Publicis, a leading provider of pharmaceutical support services and contract sales personnel. Publicis is an affiliate of Publicis Health, whose chairman and former Chief Executive Officer is Nicholas Colucci. Mr. Colucci has served on our board of directors since August 2017. During 2017, we paid Publicis approximately \$950,000 for its services and provision of two medical science liaisons on terms we consider to be arms' length between the parties.

Conversion to Corporate Form

Prior to the closing of this offering, we will convert from a Delaware limited liability company to a Delaware corporation under the name electroCore, Inc. Existing holders, including our 5% Security Holders, executive officers and directors, of our Common Units, Series A Preferred Units and Series B Preferred Units, and warrants to purchase our Units, will receive the number of shares of common stock, the number of warrants, and the number of options, respectively, described in this prospectus as a result of the corporate conversion. The existing securities held by our officers, directors, nominees for director and 5% Security Holders, executive officers and directors will be converted on the same basis as all other holders of such securities. See "Corporate Conversion" and "Principal Stockholders" for additional information.

The following table details the number of Profits Interests held by each of our executive officers and the number of shares of common stock and options each executive officer will receive as a result of the conversion of these Profits Interests in the corporation conversion.

Name	Profits Interest	Shares of common stock upon corporate conversion	Options granted upon corporate conversion
Francis R. Amato	16,832,573	6,323,966	10,508,607
Joseph P. Errico	11,901,715	2,346,399	9,555,316
Peter S. Staats, M.D.	4,410,000	2,053,176	2,356,824
Glenn S. Vraniak	4,585,858	2,121,021	2,464,837

Limitation of Liability and Indemnification

As permitted by Delaware law, we intend to adopt provisions in our certificate of incorporation, which will be effective as of the closing date of this offering, that limit or eliminate the personal liability of our directors. Our certificate of incorporation will limit the liability of directors to the maximum extent permitted by Delaware law. Delaware law provides that directors of a corporation will not be personally liable for monetary damages for breaches of their fiduciary duties as directors, except liability for:

- any breach of the director's duty of loyalty to us or our stockholders;
- any act or omission not in good faith or that involves intentional misconduct or a knowing violation of law;
- · any unlawful payments related to dividends or unlawful stock repurchases, redemptions or other distributions; or
- any transaction from which the director derived an improper personal benefit.

These limitations do not apply to liabilities arising under federal securities laws and do not affect the availability of equitable remedies, including injunctive relief or rescission. If Delaware law is amended to authorize the further elimination or limiting of a director, then the liability of our directors will be eliminated or limited to the fullest extent permitted by Delaware law as so amended.

As permitted by Delaware law, our certificate of incorporation that will be effective as of the closing date of this offering will also provide that:

- we will indemnify our directors and officers to the fullest extent permitted by law;
- we may indemnify our other employees and other agents to the same extent that we indemnify our officers and directors, unless otherwise determined by our board of directors; and
- we will advance expenses to our directors and officers in connection with legal proceedings in connection with a legal proceeding to the fullest extent permitted by law.

We anticipate entering into indemnification agreements with our directors and officers to provide such officers and directors with additional contractual assurances regarding the scope of their indemnification. We expect that each of these indemnification agreements will provide that we will indemnify the director or officer to the fullest extent permitted by law for claims arising in his capacity as a director or officer, provided that he acted in good faith and in a manner that he reasonably believed to be in, or not opposed to, our best interests and, with respect to any criminal proceeding, had no reasonable cause to believe that his conduct was unlawful. We expect that each of these indemnification agreements will provide that in the event that we do not assume the defense of a claim against a director or officer, we will be required to advance his expenses in connection with his defense, provided that he undertakes to repay all amounts advanced if it is ultimately determined that he is not entitled to be indemnified by us.

We also intend to purchase and maintain insurance on behalf of any person who is or was a director or officer against any loss arising from any claim asserted against him or her and incurred by him or her in any such capacity, subject to certain exclusions.

We believe that these provisions and agreements are necessary to attract and retain qualified persons as directors and officers. Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or persons controlling our company pursuant to the foregoing provisions, we understand that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

Policies and Procedures with Respect to Related Party Transactions

In accordance with the charter of our audit committee, which will become effective upon the closing of this offering, and our policy on related party transactions, which our board of directors will adopt in connection with this offering, our audit committee will be responsible for reviewing and approving related party transactions. The related party transaction policy will apply to transactions, arrangements and relationships where the aggregate amount involved will or may be expected to exceed \$120,000 in any calendar year, where we are a participant and in which a related person has or will have a direct or indirect material interest. A related person is: (1) any of our directors, nominees for director or executive officers; (2) any immediate family member of a director, nominee for director or executive officer; and (3) any person, and his or her immediate family members, or entity that was a beneficial owner of 5% or more of any of our outstanding equity securities at the time the transaction occurred or existed.

In the course of its review and approval of related party transactions, our audit committee will consider the relevant facts and circumstances to decide whether to approve such transactions. Our audit committee will approve only those transactions that it determines are in our best interest. In particular, our policy on related party transactions will require our audit committee to consider, among other factors it deems appropriate:

- whether the related party transaction is on terms no less favorable than terms generally available to an unaffiliated third party under the same or similar circumstances; and
- the extent of the related party's interest in the transaction.

Pursuant to our policy on related party transactions, our audit committee will identify the following categories of transactions as deemed to be preapproved by the audit committee, even if the aggregate amount involved exceeds the \$120,000 threshold:

- our employment of any executive officer or compensation paid by us to any executive officer if our compensation committee approved (or recommended that our board of directors approve) such compensation;
- any compensation paid to a director if the compensation is required to be reported in our proxy statement under Item 402 of the SEC's compensation disclosure requirements;
- any transaction with another company at which a related person's only relationship is as an employee (other than an executive officer), director or beneficial owner of less than 10% of that company's shares, if the aggregate amount involved does not exceed the greater of \$1.0 million, or 2% of that company's total annual net product revenues;
- any charitable contribution, grant or endowment made by us to a charitable organization, foundation or university at which a related person's only relationship is as an employee (other than an executive officer) or a director, if the aggregate amount involved does not exceed the lesser of \$1.0 million, or 2% of the charitable organization's total annual receipts;
- any transaction where the related person's interest arises solely from the ownership of our common stock and all holders of our common stock received the same benefit on a pro rata basis;
- any transaction involving a related person where the rates or charges involved are determined by competitive bids;
- any transaction with a related person involving the rendering of services as a common or contract carrier, or public utility, at rates or charges fixed in conformity with law or governmental authority; and
- any transaction with a related person involving services as a bank depositary of funds, transfer agent, registrar, trustee under a trust indenture, or similar services.

In addition, our code of business conduct and ethics, which will become effective upon the closing of this offering, requires that each of our employees and directors inform his or her superior or the chairman of the audit

committee, respectively, of any material transaction or relationship that comes to their attention that could reasonably be expected to create a conflict of interest. Further, at least annually, each director and executive officer will complete a detailed questionnaire that asks questions about any business relationship that may give rise to a conflict of interest and all transactions in which we are involved and in which the executive officer, a director or a related person has a direct or indirect material interest.

PRINCIPAL STOCKHOLDERS

The following table sets forth information as of June 1, 2018 regarding the beneficial ownership of our common stock, giving pro forma effect to our conversion from a Delaware limited liability company to a Delaware corporation, by:

- each person or group who is known by us to beneficially own more than 5% of our outstanding shares of common stock;
- each of our executive officers;
- each of our directors; and
- all of our executive officers and directors as a group.

Beneficial ownership for the purposes of the following table is determined in accordance with the rules and regulations of the SEC. These rules generally provide that a person is the beneficial owner of securities if such person has or shares the power to vote or direct the voting of securities, or to dispose or direct the disposition of securities or has the right to acquire such powers within 60 days. For purposes of calculating each person's percentage ownership, common stock issuable pursuant to options exercisable within 60 days are included as outstanding and beneficially owned for that person or group, but are not deemed outstanding for the purposes of computing the percentage ownership of any other person. Except as disclosed in the footnotes to this table and subject to applicable community property laws, we believe that each beneficial owner identified in the table possesses sole voting and investment power over all common stock shown as beneficially owned by the beneficial owner.

The percentage of beneficial ownership is based on 23,470,034 shares of common stock outstanding prior to this offering after giving effect to our conversion from a Delaware limited liability company to a Delaware corporation and the issuance of shares of common stock in satisfaction of our accrued and unpaid preferred return on our Series A Preferred Units, 27,803,368 shares of common stock to be outstanding after the completion of this offering, assuming no exercise of the underwriters' option to purchase additional shares of our common stock and 28,453,368 shares of our common stock to be outstanding after the completion of this offering, assuming exercise of the underwriters' option to purchase additional shares of our common stock in full. The percentage of beneficial ownership further assumes that the corporate conversion had occurred on June 1, 2018, based on the assumed initial public offering price of \$15.00 per share (the midpoint of the price range set forth on the cover page of this prospectus).

The number of shares of common stock, and the number of shares of common stock subject to options, of electroCore, Inc. that holders of our Profits Interests will receive in the corporate conversion will vary depending on the initial public offering price set forth on the cover page of this prospectus. See "Corporate Conversion" and "Pricing Sensitivity Analysis" for additional information.

Unless otherwise indicated in the table or footnotes below, the address for each beneficial owner is c/o Electrocore, LLC, 150 Allen Road, Suite 201, Basking Ridge, New Jersey 07920.

Certain of our direct and indirect unitholders, including entities affiliated with certain of our directors, have indicated an interest in purchasing an aggregate of \$20 million in shares of our common stock in this offering at the initial public offering price per share. Based on an assumed initial public offering price of \$15.00 per share, these holders would purchase up to an aggregate of 1,333,333 of the 4,333,333 shares in this offering based on these indications of interest. However, because indications of interest are not binding agreements or commitments to purchase, these holders may determine to purchase fewer shares than they indicate an interest in purchasing or not to purchase any shares in this offering. It is also possible that these holders could indicate an interest in purchasing more shares of our common stock. In addition, the underwriters could determine to sell

fewer shares to any of these holders than the holders indicate an interest in purchasing or not to sell any shares to these holders. The following table does not reflect any of these potential purchases by these holders or their affiliated entities.

				After this	offering	
	Prior to this	offering	Assuming und option to p additional sh exerci	urchase ares is not	Assuming un option to p additiona is exercise	urchase shares
	Number of beneficially		Number of beneficially		Number of shares beneficially owned	
Name	Number of Shares	Percentage of Shares	Number of shares	Percentage of shares	Number of shares	Percentage of shares
5% or more stockholders	of Shares	of Shares	or shares	of shares	of shares	of shares
Core Ventures II, LLC(1)	7,921,900	33.4%	7,921,900	28.2%	7,921,900	27.6%
101 JFK Parkway, Short Hills, NJ 07078	, ,		, ,		, ,	
Core Ventures IV, LLC(1)	1,441,646	6.1%	1,441,646	5.2%	1,441,646	5.1%
101 JFK Parkway, Short Hills, NJ 07078(1)						
Merck Global Health Innovation Fund,	3,093,696	13.2%	3,093,696	11.1%	3,093,696	10.9%
One Merck Drive 2W116, Whitehouse Station, NJ						
08889						
Kathryn Theofilos(2)						
c/o The Theo Group	1,368,768	5.8%	1,368,768	4.9%	1,368,768	4.8%
11621 Kew Gardens Ave., Suite 109						
Palm Beach Gardens, FL 33410						
Executive officers and directors						
Francis R. Amato(3)	360,855	1.5%	360,855	1.3%	360,855	1.2%
Joseph P. Errico(4)	13,100,813	55.1%	13,100,813	46.6%	13,100,813	45.5%
Peter S. Staats, M.D.(5)	469,327	2.0%	469,327	1.7%	469,327	1.6%
Glenn S. Vraniak	117,835	*	117,835	*	117,835	*
Michael G. Atieh(6)	59,524	*	59,524	*	59,524	*
Nicholas Colucci ⁽⁷⁾	44,396	*	44,396	*	44,396	*
Carrie S. Cox(8)	_	_	_	_	_	_
Thomas J. Errico, M.D.(9)	12,806,063	53.9%	12,806,063	45.6%	12,806,063	44.5%
Trevor Moody	23,833	*	23,833	*	23,833	*
Stephen L. Ondra, M.D.(10)		_		_	_	_
Michael W. Ross(11)	_	_	_	_	_	_
David Rubin, Ph.D.(12)				_		
James L.L. Tullis ⁽¹³⁾	261,409	1.1%	261,409	*	261,409	*
Executive officers and directors as a group (13 persons)	14,157,585	59.5%	14,157,585	50.4%	14,157,585	49.2%

^{*} Indicates beneficial ownership of less than 1.0%.

⁽¹⁾ Joseph P. Errico and Thomas J. Errico, M.D., are the managing members of Core Ventures II, LLC, or CV II, and Core Ventures IV, LLC, or CV IV, and as such have shared voting and dispositive power over the shares and warrants held by these entities.

⁽²⁾ Includes (i) 110,747 shares held directly by Mrs. Theofilos, (ii) 111,660 shares held by CV II, CV IV and certain other entities controlled by Joseph P. Errico and Dr. Thomas J. Errico (the "Other Entities") for the benefit of Mrs. Theofilos, and (iii) 1,146,361 shares and warrants held by the Other Entities for the benefit of a trust and certain entities in which Mrs. Theofilos is a beneficiary or has a pecuniary interest.

⁽³⁾ Includes (i) 351,331 shares held directly by Mr. Amato, and (ii) 9,524 shares held for the benefit of Mr. Amato indirectly by CV II.

- (4) Includes (i) 632,349 shares held directly by Mr. Errico and 125,173 shares held by Mr. Errico's spouse, children and trusts for the benefit of Mr. Errico's spouse and children and (ii) 1,005,260 shares and warrants held for the benefit of Mr. Errico indirectly by the Other Entities. Also includes 11,021,465 shares and warrants held by the Other Entities for the benefit of persons other than Mr. Errico. Mr. Errico serves as a manager of CV II, CV IV, and the Other Entities and has or shares voting control over such shares and warrants.
- (5) Includes (i) 151,233 shares held directly by Dr. Staats and his spouse, and (ii) 318,094 shares and warrants held for the benefit of Prand Enterprises, LLC, an entity controlled by Dr. Staats, indirectly by CV II, CV IV and the Other Entities.
- (6) Mr. Atieh is a director designee. Consists of shares held by CV II for the benefit of Mr. Atieh.
- (7) Includes (i) 1,255 shares held directly by Mr. Colucci, and (ii) 43,141 shares and warrants held for the benefit of Mr. Colucci indirectly by CV II and CV IV.
- (8) Ms. Cox is a director designee.
- (9) Includes (i) 443,318 shares held directly by Dr. Errico and 19,454 shares held by trusts for the benefit of Dr. Errico's family members, and (ii) 685,454 shares and warrants held for the benefit of Dr. Errico indirectly by CV II, CV IV, and the Other Entities. Also includes 11,334,525 shares and warrants held by CV II, CV IV, and the Other Entities for the benefit of persons other than Dr. Errico. Dr. Errico serves as a manager of CV II, CV IV, and certain of the Other Entities and has or shares voting control over such shares and warrants.
- (10) Dr. Ondra is a director designee.
- (11) Mr. Ross was appointed to our board of directors by American Investment Holdings, LLC, but he does not have nor share voting power wither respect to shares of our capital stock owned by American Investment Holdings, LLC.
- (12) Dr. Rubin is the managing director of Merck GHI, but he does not have nor share voting power with respect to shares of our capital stock owned by Merck GHI.
- (13) Represents (i) 97,894 shares held directly by Mr. Tullis and 64,597 shares held directly by his spouse and family trusts, and (ii) 98,918 shares held directly by Tullis Opportunity Fund II LP.

PRICING SENSITIVITY ANALYSIS

Throughout this prospectus we provide information assuming that the initial public offering price per share of common stock is \$15.00, which is the mid-point of the estimated price range set forth on the cover of this prospectus. However, some of the information that we provide will be affected if the initial public offering price per share of common stock in this offering is different from the mid-point of the estimated price range set forth on the cover of this prospectus. The following table presents how some of the information set forth in this prospectus would be affected by an initial public offering price per share of common stock at the low-, mid- and high-points of the estimated price range set forth on the cover of this prospectus, assuming that the underwriters' option to purchase additional common units is not exercised. See "Corporate Conversion" for additional information.

	Price per share			
	\$14.00	\$15.00	\$16.00	
	(in thous	sands, except percentaş per share data)	ges and	
Shares, warrants and options issued in corporate conversion				
Common stock issuable for:				
Common Units	12,099,280	12,099,280	12,099,280	
Series A Preferred Units	4,199,135	4,181,856	4,166,733	
Series B Preferred Units	5,843,668	5,843,668	5,843,668	
Profits Interests	1,218,252	1,345,230	1,454,931	
Total	23,360,335	23,470,034	23,564,612	
Warrants issuable for:				
Common Units	151,364	151,364	151,364	
Series A Preferred Units	20,561	20,561	20,561	
Series B Preferred Units	550,040	550,040	550,040	
Total	721,965	721,965	721,965	
Options issuable for:				
Common Units	2,272,391	2,146,039	2,036,880	
Equity ownership percentages following this offering				
Existing owners in this offering	84.3%	84.4%	84.5%	
New investors in this offering	15.7%	<u>15.6</u> %	15.5%	
	100.0%	100.0%	100.0%	
Existing owners in this offering assuming exercise of all outstanding options and warrants	85.9%	85.9%	85.9%	
New investors in this offering assuming exercise of all outstanding options and warrants	14.1%	14.1%	14.1%	
ŭ ŭ .	100.0%	100.0%	100.0%	
Net proceeds	<u> </u>			
Net proceeds from this offering (approximate)	\$ 52,500	\$ 56,500	\$ 60,500	
Pro forma as adjusted capitalization				
Cash and cash equivalents	\$ 55,373	\$ 59,403	\$ 63,433	
Warrant liability	2,485	2,485	2,485	
Stockholders' equity (deficit)				
Common stock, \$0.001 par value per share	23.2	27.6	31.9	
Preferred stock, \$0.001 par value per share			_	
Additional paid-in capital	237,765	241,791	245,816	
Accumulated deficit	(162,427)	(162,427)	(162,427)	
Accumulated other comprehensive income	(59)	(59)	(59)	
Total stockholders' equity (deficit)	75,911 [°]	79,941	83,971	
Total capitalization	\$ 78,396	\$ 82,426	\$ 86,456	
Dilution			-	
Pro forma as adjusted net tangible book deficit per share after giving effect to this offering	\$ 3.27	\$ 2.87	\$ 2.63	
Dilution per share to new investors in this offering	10.73	12.13	13.37	
Pro forma as adjusted net tangible book deficit per share after giving effect to this offering assuming exercise	10.75	12,10	10,0/	
of all outstanding options and warrants	4.40	3.98	3.60	
	4.49			
Dilution per share to new investors in this offering assuming exercise of all outstanding options and warrants	9.51	11.02	12.40	

In addition, throughout this prospectus we provide information assuming that the underwriters' option to purchase additional shares of common stock from us is not exercised. However, some of the information that we provide will be affected if the underwriters' option to purchase additional shares of common stock is exercised. The following table presents how some of the information set forth in this prospectus would be affected if the underwriters exercise in full their option to purchase additional shares of common stock where the initial public offering price per share of common stock is at the low-, mid- and high-points of the estimated price range set forth on the cover of this prospectus.

	Price per share		
	\$14.00	\$15.00	\$16.00
	(in thou	sands, except percentag per share data)	ges and
Shares, warrants and options issued in conversion			
Common stock issuable for:			
Common Units	12,099,280	12,099,280	12,099,280
Series A Preferred Units	4,199,135	4,181,856	4,166,733
Series B Preferred Units	5,843,668	5,843,668	5,843,668
Profits Interests	1,218,252	1,345,230	<u>1,454,931</u>
Total _	23,360,335	23,470,034	23,564,612
Warrants issuable for:			
Common Unit	151,364	151,364	151,364
Series A Preferred Units	20,561	20,561	20,561
Series B Preferred Units	550,040	550,040	550,040
Total	721,965	721,965	721,965
Options issuable for:			
Common Units	2,272,391	2,146,039	2,036,880
Equity ownership percentages following this offering	00.40/	00.50/	00.50
Existing owners in this offering	82.4%	82.5%	82.59
New investors in this offering	<u>17.6</u> %	<u>17.5</u> %	<u>17.5</u> 9
	<u>100.0</u> %	<u>100.0</u> %	100.09
Existing owners in this offering assuming exercise of all outstanding options and warrants	84.1%	84.1%	84.19
New investors in this offering assuming exercise of all outstanding options and warrants	15.9%	15.9%	15.9%
	100.0%	100.0%	100.0%
Net proceeds			
Net proceeds from this offering (approximate)	\$ 60,900	\$ 65,600	\$ 70,200
Pro forma as adjusted capitalization		, ,	
Cash and cash equivalents	\$ 63,836	\$ 68,470	\$ 73,105
Warrant liability	2,485	2,485	2,485
Stockholders' equity (deficit)	2,400	2,403	2,403
Common stock, \$0.001 par value per share	23.9	28.2	32.5
Preferred stock, \$0.001 par value per share	23.3	20.2	32.3
Additional paid-in capital	246,227	250,858	255,488
Accumulated deficit	(162,427)	(162,427)	(162,427)
Accumulated other comprehensive income	(59)	(59)	(59)
Total stockholders' equity (deficit)	84,374	89.009	93.643
Total capitalization	\$ 86,859	\$ 91,494	\$ 96,128
Dilution	\$ 00,033	9 91,494	\$ 50,120
	¢ 2.52	¢ 210	¢ 2.00
Pro forma as adjusted net tangible book deficit per share after giving effect to this offering	\$ 3.53	\$ 3.16	\$ 2.88
Dilution per share to new investors in this offering	10.47	11.84	13.12
			_
Pro forma as adjusted net tangible book deficit per share after giving effect to this offering assuming exercise of all outstanding options and warrants Dilution per share to new investors in this offering assuming exercise of all outstanding options and warrants	<u>4.70</u> 9.30	4.19 10.81	3.81 12.19

DESCRIPTION OF CAPITAL STOCK

The following description summarizes important terms of our capital stock. For a complete description, you should refer to our certificate of incorporation and bylaws, forms of which have been filed as exhibits to the registration statement of which this prospectus is a part, as well as the relevant portions of the DGCL. References to our certificate of incorporation and bylaws are to our certificate of incorporation and our bylaws, respectively, each of which will become effective upon completion of the corporate conversion that will occur prior to the closing of this offering. The description of our common stock and preferred stock reflects the completion of the corporate conversion that will occur prior to the closing of this offering.

General

Upon the closing of this offering, our authorized capital stock will consist of: (i) 500,000,000 shares of common stock, par value \$0.001 per share; and (ii) 10,000,000 shares of preferred stock, par value \$0.001 per share.

As of June 1, 2018, we had no outstanding shares of common stock, and no holders of common stock of record, After giving effect to the completion of the corporate conversion described above in the section entitled "Corporate Conversion" and based on an assumed initial public offering price of \$15.00 (the midpoint of the range set forth on the cover page of this prospectus), upon completion of the corporate conversion (including the issuance of shares of common stock in respect of our accumulated preferred return on Series A Preferred Units) and the closing of this offering, there will be 27,803,368 shares of common stock outstanding and no shares of preferred stock outstanding. See "Corporate Conversion" and "Pricing Sensitivity Analysis" for additional information

Common Stock

Voting Rights

Each holder of our common stock will be entitled to one vote for each share on all matters submitted to a vote of the stockholders, including the election of directors. Under our certificate of incorporation and our amended and restated bylaws that will be in effect following the completion of this offering, our stockholders will not have cumulative voting rights. Because of this, the holders of a majority of the shares of common stock entitled to vote in any election of directors will be able to elect all of the directors standing for election, if they should so choose.

Dividend Rights

Subject to preferences that may be applicable to any then-outstanding preferred stock, holders of common stock will not be entitled to receive ratably those dividends, if any, as may be declared from time to time by the board of directors out of legally available funds.

Liquidation Rights

In the event of our liquidation, dissolution or winding up, holders of common stock will be entitled to share ratably in the net assets legally available for distribution to stockholders after the payment of all of our debts and other liabilities and the satisfaction of any liquidation preference granted to the holders of any then-outstanding shares of preferred stock.

Other Rights and Preferences

Holders of our common stock will have no preemptive, conversion or subscription rights and there will be no redemption or sinking fund provisions applicable to the common stock. The rights, preferences and privileges of the holders of common stock will be subject to, and may be adversely affected by, the rights of the holders of shares of any series of preferred stock that we may designate in the future.

Preferred Stock

Following the corporate conversion and the completion of this offering, our board of directors will have the authority, without further action by our stockholders, to issue up to 10.0 million shares of preferred stock in one or more series, to establish from time to time the number of shares to be included in each such series, to fix the rights, preferences and privileges of the shares of each series and any qualifications, limitations or restrictions thereon, and to increase or decrease the number of shares of any such series, but not below the number of shares of such series then outstanding.

Our board of directors may authorize the issuance of preferred stock with voting or conversion rights that could adversely affect the voting power or other rights of the holders of our common stock. The purpose of authorizing our board of directors to issue preferred stock and determine its rights and preferences is to eliminate delays associated with a stockholder vote on specific issuances. The issuance of preferred stock, while providing flexibility in connection with possible acquisitions and other corporate purposes, could, among other things, have the effect of delaying, deferring or preventing a change of control of our company and may adversely affect the market price of our common stock and the voting and other rights of the holders of our common stock. It is not possible to state the actual effect of the issuance of any shares of preferred stock on the rights of holders of common stock until the board of directors determines the specific rights attached to that preferred stock.

We have no present plans to issue any shares of preferred stock.

Registration Rights

Under our Amended and Restated Investor Rights Agreement, following the consummation of this offering, the holders of approximately 16.2 million shares of common stock, or their transferees, will have the right to require us to register their shares under the Securities Act so that those shares may be publicly resold, or to include their shares in any registration statement we file, in each case as described below.

Demand Registration Rights

Based on the number of shares outstanding as of 2018, after the consummation of this offering, the holders of approximately 16.2 million shares of our common stock (on an as-converted basis), or their transferees, will be entitled to certain demand registration rights. Beginning one hundred eighty (180) days following the effectiveness of the registration statement of which this prospectus is a part, the holders of at least 55% of these shares can, on not more than three occasions, request that we register at least 40% of the shares issued to such holders, or a lesser percentage if the anticipated aggregate offering price, net of underwriting discounts and commissions, would exceed \$5,000,000. Additionally, we will not be required to effect a demand registration during the period beginning 60 days prior to our good faith estimate of the filing of, and ending 180 days following the effectiveness of, a company-initiated registration statement relating to an initial public offering of our securities. These registration rights are further subject to specified conditions and limitations, including the right of the underwriters, if any, to limit the number of shares included in any such registration under specified circumstances. Upon such a request, we are required to use commercially reasonable efforts to effect the registration as soon as practicable.

Piggyback Registration Rights

Based on the number of shares outstanding as of 2018, after the consummation of this offering, in the event that we determine to register any of our securities under the Securities Act (subject to certain exceptions), either for our own account or for the account of other security holders, the holders of approximately 16.2 million shares of our common stock (on an as-converted basis), or their transferees, will be entitled to certain "piggyback" registration rights allowing the holders to include their shares in such registration, subject to certain marketing and other limitations. As a result, whenever we propose to file a registration statement under the Securities Act,

other than with respect to a registration related to employee benefit plans, the offer and sale of debt securities, or corporate reorganizations or certain other transactions, the holders of these shares are entitled to notice of the registration and have the right, subject to limitations that the underwriters may impose on the number of shares included in the registration, to include their shares in the registration. In an underwritten offering, the managing underwriter, if any, has the right, subject to specified conditions, to limit the number of shares such holders may include.

Registration on Form S-3

Based on the number of shares outstanding as of 2018, after the consummation of this offering, the holders of approximately 16.2 million shares of our common stock (on an as-converted basis), or their transferees, will be entitled to certain Form S-3 registration rights. The holders of at least 20% of these shares can make a written request that we register their shares on Form S-3 if we are eligible to file a registration statement on Form S-3 and if the aggregate price to the public of the shares offered is at least \$500,000 net of certain expenses related to the sale of the shares. These stockholders may make an unlimited number of requests for registration on Form S-3, but in no event shall we be required to file more than two registrations on Form S-3 within any 12-month period.

Expenses of Registration

We will pay all expenses relating to any demand, piggyback or Form S-3 registration, other than underwriting discounts and commissions, subject to specified conditions and limitations.

Termination of Registration Rights

The registration rights granted under the Amended and Restated Investor Rights Agreement will terminate, with respect to a particular holder, at the earlier of: (i) such time as that holder and its affiliates may sell all of their shares of common stock pursuant to Rule 144 under the Securities Act during any 90-day period; and (ii) the seven year anniversary of this offering.

Anti-Takeover Provisions

The provisions of Delaware law, and our certificate of incorporation and our bylaws could have the effect of delaying, deferring or discouraging another person from acquiring control of our company. These provisions, which are summarized below, may have the effect of discouraging takeover bids. They are also designed, in part, to encourage persons seeking to acquire control of us to negotiate first with our board of directors. We believe that the benefits of increased protection of our potential ability to negotiate with an unfriendly or unsolicited acquirer outweigh the disadvantages of discouraging a proposal to acquire us because negotiation of these proposals could result in an improvement of their terms.

Section 203 of the Delaware General Corporation Law

We are subject to Section 203 of the DGCL, which prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years after the date that such stockholder became an interested stockholder, with the following exceptions:

- before such date, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder;
- upon completion of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction began, excluding for purposes of determining the voting stock outstanding, but not the outstanding voting stock owned by the interested stockholder, those shares owned (i) by persons

- who are directors and also officers and (ii) employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or
- on or after such date, the business combination is approved by the board of directors and authorized at an annual or special meeting of the stockholders, and not by written consent, by the affirmative vote of at least 66 2/3% of the outstanding voting stock that is not owned by the interested stockholder.

In general, Section 203 defines a "business combination" to include the following:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, transfer, pledge or other disposition of 10% or more of the assets of the corporation involving the interested stockholder;
- subject to specified exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;
- any transaction involving the corporation that has the effect of increasing the proportionate share of the stock or any class or series of the corporation beneficially owned by the interested stockholder; or
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits by or through the corporation.

In general, Section 203 defines an "interested stockholder" as an entity or person who, together with the person's affiliates and associates, beneficially owns, or within three years prior to the time of determination of interested stockholder status did own, 15% or more of the outstanding voting stock of the corporation.

Our Certificate of Incorporation and Bylaws

Our certificate of incorporation and bylaws will include a number of provisions that could deter hostile takeovers or delay or prevent changes in control of our company, including the following:

- Classified Board. Our certificate of incorporation will provide for our board of directors to be divided into three classes with staggered three-year terms. Only one class of directors will be elected at each annual meeting of our stockholders, with the other classes continuing for the remainder of their respective three-year terms. Because our stockholders do not have cumulative voting rights, stockholders holding a majority of the shares of common stock outstanding will be able to elect all of our directors. Our certificate of incorporation and our bylaws will also provide that directors may be removed by the stockholders only for cause upon the vote of 66 2/3% or more of our outstanding common stock. Furthermore, the authorized number of directors may be changed only by resolution of the board of directors, and vacancies and newly created directorships on the board of directors may, except as otherwise required by law or determined by the board, only be filled by a majority vote of the directors then serving on the board, even though less than a quorum.
- Special Meetings of Stockholders and Stockholder Action by Written Consent. Our certificate of incorporation and bylaws will provide that all stockholder actions must be effected at a duly called meeting of stockholders and will eliminate the right of stockholders to act by written consent without a meeting. Our bylaws will also provide that only our chairman of the board, Chief Executive Officer (or if there is no Chief Executive Officer, the President) or the board of directors pursuant to a resolution adopted by a majority of the total number of authorized directors may call a special meeting of stockholders.
- Advance Notice Requirements for Stockholder Proposals. Our bylaws will provide that stockholders seeking to present proposals before a
 meeting of stockholders, including the nomination of director candidates, must provide timely advance notice in writing, and will specify
 requirements as to the form and content of a stockholder's notice.

• *Amendment to Certificate of Incorporation and Bylaws.* Our certificate of incorporation and bylaws will provide that the stockholders cannot amend the provisions described above except by a vote of 66 2/3% or more of our outstanding common stock.

The combination of these provisions will make it more difficult for our existing stockholders to replace our board of directors as well as for another party to obtain control of us by replacing our board of directors. Since our board of directors has the power to retain and discharge our officers, these provisions could also make it more difficult for existing stockholders or another party to effect a change in management. In addition, the authorization of undesignated preferred stock makes it possible for our board of directors to issue preferred stock with voting or other rights or preferences that could impede any attempt to effect a change of control of our company.

These provisions are intended to enhance the likelihood of continued stability in the composition of our board of directors and its policies and to discourage coercive takeover practices and inadequate takeover bids. These provisions are also designed to reduce our vulnerability to hostile takeovers and to discourage tactics that may be used in proxy fights. However, such provisions could have the effect of discouraging others from making tender offers for our shares and may have the effect of delaying changes in our control or management. As a consequence, these provisions may also inhibit fluctuations in the market price of our stock that could result from actual or rumored takeover attempts. We believe that the benefits of these provisions, including increased protection of our potential ability to negotiate with the proponent of an unfriendly or unsolicited proposal to acquire or restructure our company, outweigh the disadvantages of discouraging takeover proposals, because negotiation of takeover proposals could result in an improvement of their terms.

Choice of Forum

Our certificate of incorporation will provide that the Court of Chancery of the state of Delaware will be the exclusive forum for: (i) any derivative action or proceeding brought on our behalf; (ii) any action asserting a breach of fiduciary duty; (iii) any action asserting a claim against us arising pursuant to the DGCL, our certificate of incorporation or our bylaws; (iv) or any action asserting a claim against us that is governed by the internal affairs doctrine. Our certificate of incorporation further provides that the federal district courts of the United States will be the exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act. The enforceability of similar choice of forum provisions in some other companies' certificates of incorporation has been challenged in legal proceedings, and it is possible that, in connection with any action, a court could find the choice of forum provisions contained in our certificate of incorporation to be inapplicable or unenforceable in such action.

Limitation of Liability and Indemnification

Our certificate of incorporation will provide that no director will be personally liable for monetary damages for breach of any fiduciary duty as a director, except with respect to liability:

- for any breach of the director's duty of loyalty to us or our stockholders;
- for acts or omissions not in good faith or that involve intentional misconduct or a knowing violation of law;
- under Section 174 of the DGCL (governing distributions to stockholders); or
- for any transaction from which the director derived any improper personal benefit.

If the DGCL is amended to authorize corporate action further eliminating or limiting the personal liability of directors, then the liability of our directors will be eliminated or limited to the fullest extent permitted by the DGCL, as so amended. The modification or repeal of this provision of our certificate of incorporation will not adversely affect any right or protection of a director existing at the time of such modification or repeal.

Our bylaws will also provide that we will, to the fullest extent permitted by law, indemnify our directors and officers against all liabilities and expenses in any suit or proceeding or arising out of their status as an officer or director or their activities in these capacities. We will also indemnify any person who, at our request, is or was serving as a director, officer, employee, agent or trustee of another corporation or of a partnership, limited liability company, joint venture, trust or other enterprise. We may, by action of our board of directors, provide indemnification to our employees and agents within the same scope and effect as the foregoing indemnification of directors and officers.

Transfer Agent and Registrar

The transfer agent and registrar for our common stock will be Broadridge Corporate Issuer Solutions, Inc. 1717 Arch Street, Suite 1300, Philadelphia, Pennsylvania 19103.

Stock Exchange Listing

We have applied to list our common stock on the Nasdaq Global Select Market under the symbol "ECOR."

SHARES ELIGIBLE FOR FUTURE SALE

Prior to this offering, there has not been a public market for shares of our common stock, and we cannot predict the effect, if any, that market sales of shares of our common stock or the availability of shares of our common stock for sale will have on the market price of our common stock prevailing from time to time. Nevertheless, sales of substantial amounts of our common stock, including shares issued upon exercise of outstanding options, in the public market following this offering could adversely affect market prices prevailing from time to time and could impair our ability to raise capital through the sale of our equity securities.

Based upon the number of shares of our common stock outstanding as of June 1, 2018, and after giving effect to the corporate conversion, based on the assumed initial public offering price of \$15.00 (the midpoint of the price range set forth on the cover page of this prospectus) we will have 27,803,368 shares of common stock outstanding upon the closing of this offering. Of these outstanding shares, all of the shares of common stock sold in this offering will be freely tradable, except that any shares purchased in this offering by our affiliates, as that term is defined in Rule 144 under the Securities Act, would only be able to be sold in compliance with the Rule 144 limitations described below.

The remaining outstanding shares of our common stock will be deemed "restricted securities" as defined in Rule 144. Restricted securities may be sold in the public market only if they are registered under the Securities Act or if they qualify for an exemption from registration under Rule 144 or Rule 701 promulgated under the Securities Act, which rules are summarized below. In addition, all of our security holders have entered into market standoff agreements with us or lock-up agreements with the underwriters under which they have agreed, subject to specific exceptions, not to sell any of our stock for at least 180 days following the date of this prospectus, as described below. As a result of these agreements and the provisions of our amended and restated investors' rights agreement described above under "Description of Capital Stock—Registration Rights," subject to the provisions of Rule 144 or Rule 701, shares will be available for sale in the public market as follows:

- beginning on the date of this prospectus, all of the shares sold in this offering will be immediately available for sale in the public market (except as described above); and
- beginning 181 days after the date of this prospectus, approximately 23.0 million additional shares will become eligible for sale in the public market, of which approximately 17.3 million shares will be held by affiliates and subject to the volume and other restrictions of Rule 144, as described below.

Certain of our direct and indirect unitholders, including entities affiliated with certain of our directors, have indicated an interest in purchasing an aggregate of \$20 million in shares of our common stock in this offering at the initial public offering price per share. Any such shares purchased by these holders who are considered to be our affiliates could not be resold in the public market immediately following this offering as a result of restrictions under securities laws, but would be able to be sold following the expiration of these restrictions, as described below. However, because indications of interest are not binding agreements or commitments to purchase, the underwriters may determine to sell more, less or no shares in this offering to any of these holders, or any of these holders may determine to purchase more, less or no shares in this offering.

Lock-Up and Market Standoff Agreements

All of our directors, executive officers and substantially all of our security holders are subject to lock-up agreements or market standoff provisions that, subject to certain exceptions, prohibit them from directly or indirectly offering, pledging, selling, contracting to sell, selling any option or contract to purchase, purchasing any option or contract to purchase, granting any option, right or warrant to purchase or otherwise transferring or disposing of any shares of our common stock, options to acquire shares of our common stock or any securities convertible into or exercisable or exchangeable for common stock, whether now owned or hereafter acquired, or entering into any swap or any other agreement or any transaction that transfer, in whole or in part, directly or indirectly, the economic consequence of ownership, for a period of 180 days following the date of this prospectus, without the prior written consent of Evercore Group L.L.C. See the section entitled "Underwriting."

Rule 144

In general, under Rule 144 as currently in effect, once we have been subject to public company reporting requirements for at least 90 days, a person who is not deemed to have been one of our affiliates for purposes of the Securities Act at any time during the 90 days preceding a sale and who has beneficially owned the shares proposed to be sold for at least six months, including the holding period of any prior owner other than our affiliates, is entitled to sell those shares without complying with the manner of sale, volume limitation or notice provisions of Rule 144, subject to compliance with the public information requirements of Rule 144. If such a person has beneficially owned the shares proposed to be sold for at least one year, including the holding period of any prior owner other than our affiliates, then that person would be entitled to sell those shares without complying with any of the requirements of Rule 144.

In general, under Rule 144, as currently in effect, our affiliates or persons selling shares on behalf of our affiliates are entitled to sell upon expiration of the lock-up and market standoff agreements described above, within any three-month period, a number of shares that does not exceed the greater of:

- 1% of the number of shares of our common stock then outstanding, which will equal approximately 278,000 shares immediately after this offering; or
- the average weekly trading volume of our common stock during the four calendar weeks preceding the filing of a notice on Form 144 with respect to that sale.

Sales under Rule 144 by our affiliates or persons selling shares on behalf of our affiliates are also subject to certain manner of sale provisions and notice requirements and to the availability of current public information about us.

Rule 701

Rule 701 generally allows a stockholder who purchased shares of our common stock pursuant to a written compensatory plan or contract and who is not deemed to have been an affiliate of our company during the immediately preceding 90 days to sell these shares in reliance upon Rule 144, but without being required to comply with the public information, holding period, volume limitation or notice provisions of Rule 144. Rule 701 also permits affiliates of our company to sell their Rule 701 shares under Rule 144 without complying with the holding period requirements of Rule 144. All holders of Rule 701 shares, however, are required by that rule to wait until 90 days after the date of this prospectus before selling those shares pursuant to Rule 701 and are subject to the lock-up and market standoff agreements described above.

Stock Options

In connection with this offering, we intend to file a registration statement on Form S-8 under the Securities Act covering all of the shares of our common stock subject to outstanding options and the shares of our common stock reserved for issuance under our stock plans. We expect to file this registration statement as soon as permitted under the Securities Act. However, the shares registered on Form S-8 may be subject to the volume limitations and the manner of sale, notice and public information requirements of Rule 144 and will not be eligible for resale until expiration of the lock-up and market standoff agreements to which they are subject.

Registration Rights

We have granted demand, piggyback and Form S-3 registration rights to certain of our stockholders to sell our common stock. Registration of the sale of these shares under the Securities Act would result in these shares becoming freely tradable without restriction under the Securities Act immediately upon the effectiveness of the registration, except for shares purchased by affiliates. For a further description of these rights, see "Description of Capital Stock—Registration Rights."

CERTAIN MATERIAL U.S. FEDERAL INCOME AND ESTATE TAX CONSIDERATIONS FOR NON-U.S. HOLDERS OF COMMON STOCK

The following is a general discussion of material U.S. federal income tax considerations and certain U.S. estate tax considerations relating to the ownership and disposition of our common stock applicable to non-U.S. holders. For purposes of this discussion, a "non-U.S. holder" means a beneficial owner of our common stock (other than an entity or arrangement that is treated as a partnership for U.S. federal income tax purposes) that is not, for U.S. federal income tax purposes, any of the following:

- an individual who is a citizen or resident of the United States;
- a corporation (or other entity treated as a corporation for U.S. federal income tax purposes) created or organized in the United States or under the laws of the United States, any state thereof or the District of Columbia;
- an estate, the income of which is includable in gross income for U.S. federal income tax purposes regardless of its source; or
- a trust if (i) a court within the United States is able to exercise primary supervision over the administration of the trust and one or more "U.S. persons," as defined under the U.S. Internal Revenue Code of 1986, as amended (which we refer to as the Code), have the authority to control all substantial decisions of the trust or (ii) such trust has made a valid election to be treated as a U.S. person for U.S. federal income tax purposes.

This discussion is based on current provisions of the Code, final, temporary and proposed Treasury regulations promulgated thereunder (which we refer to as the Treasury Regulations), judicial decisions, published rulings and administrative pronouncements of the U.S. Internal Revenue Service, or IRS, all in effect as of the date of this prospectus and all of which are subject to change or to differing interpretation, possibly with retroactive effect. Any change could alter the tax consequences to non-U.S. holders described herein. There can be no assurance that the IRS, will not challenge one or more of the tax consequences described herein.

This discussion is limited to non-U.S. holders that hold our common stock as a "capital asset" within the meaning of Section 1221 of the Code (generally, property held for investment). This discussion does not address all aspects of U.S. federal income and estate taxation that may be relevant to a particular non-U.S. holder in light of that non-U.S. holder's individual circumstances nor does it address any aspects of U.S. state, local or non-U.S. taxes, the alternative minimum tax, or the unearned income Medicare contribution tax on net investment income. This discussion also does not consider any specific facts or circumstances that may apply to a non-U.S. holder and does not address the special tax rules applicable to particular non-U.S. holders, such as:

- banks, insurance companies and other financial institutions;
- brokers or dealers or traders in securities;
- tax-exempt organizations;
- pension plans;
- persons who hold our common stock as part of a straddle, hedge, conversion transaction, synthetic security or other integrated investment or who have elected to mark securities to market;
- "controlled foreign corporations," "passive foreign investment companies," and corporations that accumulate earnings to avoid U.S. federal income tax:
- persons who hold or receive our common stock pursuant to the exercise of any employee stock option or otherwise as compensation;
- persons for whom our common stock constitutes "qualified small business stock" within the meaning of Section 1202 of the Code;

- persons subject to special tax accounting rules as a result of any item of gross income with respect to our common stock being taken into account in an applicable financial statement;
- non-U.S. governments; and
- U.S. expatriates and former citizens or long-term residents of the United States.

If a partnership (or other entity or arrangement treated as a partnership for U.S. federal income tax purposes) holds our common stock, the tax treatment of a partner therein will generally depend on the status of the partner and the activities of the partnership. Partners of a partnership holding our common stock should consult their tax advisors as to the particular U.S. federal income tax consequences applicable to them.

THIS SUMMARY IS NOT INTENDED TO CONSTITUTE A COMPLETE DESCRIPTION OF ALL TAX CONSEQUENCES FOR NON-U.S. HOLDERS RELATING TO THE OWNERSHIP AND DISPOSITION OF OUR COMMON STOCK. PROSPECTIVE HOLDERS OF OUR COMMON STOCK SHOULD CONSULT WITH THEIR TAX ADVISORS REGARDING THE TAX CONSEQUENCES TO THEM (INCLUDING THE APPLICATION AND EFFECT OF ANY STATE, LOCAL, NON-U.S. INCOME AND OTHER TAX LAWS) OF THE OWNERSHIP AND DISPOSITION OF OUR COMMON STOCK.

Distributions

As discussed under "Dividend Policy" above, we do not expect to make distributions on our common stock in the foreseeable future. However, if we do make distributions of cash or property on our common stock, such distributions will constitute dividends for U.S. federal income tax purposes to the extent paid from our current or accumulated earnings and profits, as determined under U.S. federal income tax principles. Amounts of distributions not treated as dividends for U.S. federal income tax purposes will first constitute a tax-free return of capital of the non-U.S. holder's investment and be applied against and reduce a non-U.S. holder's adjusted tax basis in its common stock, but not below zero. Any remaining excess will be treated as capital gain and will be treated as described below under "Gain on Sale or Other Disposition of Common Stock." Any such distributions will also be subject to the discussions below under the headings "FATCA" and "Backup Withholding, Information Reporting and Other Reporting Requirements."

Subject to the discussion in the next paragraph regarding effectively connected income, dividends paid to a non-U.S. holder generally will be subject to withholding of U.S. federal income tax at a 30% rate or such lower rate as may be specified by an applicable income tax treaty between the United States and such holder's country of residence.

Dividends we pay to a non-U.S. holder that are effectively connected with its conduct of a trade or business within the United States (and, if required by an applicable tax treaty, are attributable to a U.S. permanent establishment or a fixed base maintained by such non-U.S. holder) will generally be exempt from the U.S. federal withholding tax, as described above, if the non-U.S. holder complies with applicable certification and disclosure requirements (generally including provision of a valid IRS Form W-8ECI (or applicable successor form) certifying that the dividends are effectively connected with the non-U.S. holder's conduct of a trade or business within the United States). Instead, such dividends generally will be subject to U.S. federal income tax on a net income basis, at regular U.S. federal income tax rates as would apply if such holder were a U.S. person (as defined in the Code). Any U.S. effectively connected income received by a non-U.S. holder that is classified as a corporation for U.S. federal income tax purposes, may also be subject to an additional "branch profits tax" at a rate of 30% (or such lower rate as may be specified by an applicable income tax treaty).

A non-U.S. holder of our common stock who claims the benefit of an applicable income tax treaty between the United States and such holder's country of residence generally will be required to provide a properly executed IRS Form W-8BEN or W-8BEN-E (or successor form) and satisfy applicable certification and other requirements. Non-U.S. holders are urged to consult their tax advisors regarding their entitlement to benefits under a relevant income tax treaty and the specific methods available to them to satisfy these requirements.

Gain on Sale or Other Disposition of Common Stock

Subject to the discussion below under the headings "FATCA" and "Backup Withholding, Information Reporting and Other Reporting Requirements," a non-U.S. holder generally will not be subject to U.S. federal income tax on any gain realized upon the sale or other disposition of the non-U.S. holder's shares of common stock unless:

- the gain is effectively connected with a trade or business carried on by the non-U.S. holder within the United States (and, if required by an applicable income tax treaty, is attributable to a U.S. permanent establishment or fixed base maintained by such non-U.S. holder);
- the non-U.S. holder is an individual and is present in the United States for 183 days or more in the taxable year of disposition and certain other conditions are met; or
- we are or have been a "U.S. real property holding corporation" for U.S. federal income tax purposes at any time within the shorter of the five-year period preceding such disposition or such non-U.S. holder's holding period of our common stock, and, provided that our common stock is regularly traded in an established securities market within the meaning of applicable Treasury Regulations, the non-U.S. holder has held, directly or constructively, at any time during said period, more than 5% of our common stock.

Gain that is effectively connected with the conduct of a trade or business in the United States generally will be subject to U.S. federal income tax on a net income tax basis, at regular U.S. federal income tax rates. If the non-U.S. holder is a non-U.S. corporation, the branch profits tax described above also may apply to such effectively connected gain. An individual non-U.S. holder who is subject to U.S. federal income tax because the non-U.S. holder was present in the United States for 183 days or more during the year of sale or other disposition of our common stock will be subject to a flat 30% tax (or such lower rate as may be specified by an applicable income tax treaty) on the gain derived from such sale or other disposition, which may be offset by certain U.S. source capital losses, if any. We believe that we are not and we do not anticipate becoming a U.S. real property holding corporation for U.S. federal income tax purposes.

FATCA

The Foreign Account Tax Compliance Act, or FATCA, imposes a U.S. federal withholding tax of 30% on certain payments to foreign financial institutions, investment funds and certain other non-U.S. persons that fail to comply with certain information reporting and certification requirements pertaining to their direct and indirect U.S. securityholders and/or U.S. accountholders and are not otherwise exempt. Under applicable Treasury Regulations and IRS guidance, this withholding currently applies to payments of dividends, if any, on our common stock and will apply to payments of gross proceeds from a sale or other disposition of our common stock made on or after January 1, 2019. An intergovernmental agreement between the U.S. and an applicable foreign country may modify the requirements described in this paragraph. Prospective investors are encouraged to consult with their tax advisors regarding the possible implications of this legislation on their investment in our common stock.

Backup Withholding, Information Reporting and Other Reporting Requirements

We must report annually to the IRS and to each non-U.S. holder the amount of any distributions paid to, and the tax withheld with respect to, each non-U.S. holder. These reporting requirements apply regardless of whether withholding was reduced or eliminated by an applicable income tax treaty. Copies of this information reporting may also be made available under the provisions of a specific income tax treaty or agreement with the tax authorities in the country in which the non-U.S. holder resides or is established.

A non-U.S. holder will generally be subject to backup withholding for dividends on our common stock paid to such holder unless such holder certifies under penalties of perjury that, among other things, it is a non-U.S.

holder (provided that the payor does not have actual knowledge or reason to know that such holder is a U.S. person) or otherwise establishes an exemption.

Information reporting and backup withholding generally will apply to the proceeds of a disposition of our common stock by a non-U.S. holder effected by or through the U.S. office of any broker, U.S. or non-U.S., unless the holder certifies its status as a non-U.S. holder and satisfies certain other requirements, or otherwise establishes an exemption. Generally, information reporting and backup withholding will not apply to a payment of disposition proceeds to a non-U.S. holder where the transaction is effected outside the United States through a non-U.S. office of a broker. However, for information reporting purposes, dispositions effected through a non-U.S. office of a broker with substantial U.S. ownership or operations generally will be treated in a manner similar to dispositions effected through a U.S. office of a broker. Non-U.S. holders should consult their tax advisors regarding the application of the information reporting and backup withholding rules to them.

Backup withholding is not an additional income tax. Any amounts withheld under the backup withholding rules from a payment to a non-U.S. holder generally can be credited against the non-U.S. holder's U.S. federal income tax liability, if any, or refunded, provided that the required information is furnished to the IRS in a timely manner. Non-U.S. holders should consult their tax advisors regarding the application of the information reporting and backup withholding rules to them.

U.S. Federal Estate Tax

Shares of our common stock that are owned or treated as owned by an individual who is not a citizen or resident of the United States (as specially defined for U.S. federal estate tax purposes) at the time of death are considered U.S. situs assets and will be included in the individual's gross estate for U.S. federal estate tax purposes. Such shares, therefore, may be subject to U.S. federal estate tax, unless an applicable estate tax or other treaty provides otherwise.

The preceding discussion of material U.S. federal income tax considerations and certain U.S. estate tax considerations is for information only. It is not legal or tax advice. Prospective investors should consult their tax advisors regarding the particular U.S. federal, state, local and non-U.S. tax consequences of owning and disposing of our common stock, including the consequences of any proposed changes in applicable laws.

UNDERWRITING

Evercore Group L.L.C., Cantor Fitzgerald & Co., and JMP Securities LLC are acting as representatives of each of the underwriters named below. Subject to the terms and conditions set forth in an underwriting agreement among us and the underwriters, we have agreed to sell to the underwriters, and each of the underwriters has agreed, severally and not jointly, to purchase from us, the number of shares of our common stock set forth opposite its name below.

Underwriters	Number of Shares
Evercore Group L.L.C.	
Cantor Fitzgerald & Co.	
JMP Securities LLC	
BTIG, LLC	
Total	4,333,333

The underwriting agreement provides that the obligations of the several underwriters to pay for and accept delivery of the shares of common stock offered by this prospectus are subject to the approval of certain legal matters by their counsel and to certain other conditions, including the receipt by the underwriters of officers' certificates, legal opinions and "comfort" letters from our outside auditors. The underwriters are obligated to take and pay for all of the shares of common stock offered by this prospectus if any such shares are taken. However, the underwriters are not required to take or pay for the shares covered by the underwriters' option to purchase additional shares described below. If an underwriter defaults, the underwriting agreement provides that the purchase commitments of the non-defaulting underwriters may be increased or the underwriting agreement may be terminated.

We have agreed to indemnify the several underwriters against certain liabilities, including liabilities under the Securities Act relating to losses or claims resulting from material misstatements in or omissions from this prospectus, the registration statement of which this prospectus is a part, certain free writing prospectuses that may be used in the offering and in any marketing materials used in connection with this offering and to contribute to payments the underwriters may be required to make in respect of those liabilities.

Discounts and Commissions

The representatives have advised us that the underwriters propose initially to offer the shares to the public at the public offering price set forth on the cover page of this prospectus and to dealers at that price less a concession not in excess of \$ per share. After the initial offering, the public offering price, concession or any other term of this offering may be changed. The underwriters reserve the right to withdraw, cancel or modify offers to the public and to reject orders in whole or in part.

The following table shows the public offering price, underwriting discount and proceeds, before expenses, to us. The information assumes either no exercise or full exercise by the underwriters of their option to purchase additional shares.

		Without	With
	Per Share	Option	Option
Public Offering Price	\$	\$	\$
Underwriter Discount	\$	\$	\$
Proceeds, before expenses, to us	\$	\$	\$

The estimated offering expenses payable by us, exclusive of the underwriting discount and commissions, are approximately \$4.0 million. We have also agreed to reimburse the underwriters for certain of their expenses in an amount not to exceed \$35,000.

Option to Purchase Additional Shares

We have granted to the underwriters an option, exercisable for 30 days from the date of this prospectus, to purchase up to 649,999 additional shares of common stock at the public offering price listed on the cover page of this prospectus, less the underwriting discount and commissions. To the extent the option is exercised, each underwriter will become obligated, subject to certain conditions, to purchase the same percentage of the additional shares of common stock as the number listed next to the underwriter's name in the table above bears to the total number of shares of common stock listed next to the names of all underwriters in the preceding table.

No Sales of Similar Securities

We, our executive officers and directors and substantially all of our other existing security holders have agreed not to sell or transfer any shares of our common stock or securities convertible into, exchangeable for, exercisable for, or repayable with shares of our common stock, for 180 days after the date of this prospectus without first obtaining the written consent of Evercore Group L.L.C. Specifically, we and these other persons have agreed, with certain limited exceptions, not to directly or indirectly:

- offer, pledge, announce the intention to sell, sell or contract to sell any shares of our common stock;
- sell any option or contract to purchase any shares of our common stock;
- purchase any option or contract to sell any shares of our common stock;
- · grant any option, right or warrant to purchase any shares of our common stock;
- dispose of or otherwise transfer any shares of our common stock;
- demand that we file a registration statement related to our common stock; or
- enter into any swap or other agreement that transfers, in whole or in part, the economic consequence of ownership of any shares of our common stock whether any such swap or transaction is to be settled by delivery of shares or other securities, in cash or otherwise.

This lock-up provision applies to shares of our common stock and to securities convertible into or exchangeable or exercisable for or repayable with shares of our common stock. It also applies to shares of our common stock owned now or acquired later by the person executing the agreement or for which the person executing the agreement later acquires the power of disposition.

Listing

We have applied to list our common stock on The Nasdaq Global Select Market under the symbol "ECOR." In order to meet the requirements for listing on that exchange, the underwriters have undertaken to sell a minimum number of shares to a minimum number of beneficial owners as required by that exchange.

Before this offering, there has been no public market for our common stock. The initial public offering price will be determined through negotiations between us and the representatives. In addition to prevailing market conditions, the factors to be considered in determining the initial public offering price are:

- the valuation multiples of publicly traded companies that the representatives believe to be comparable to us;
- our financial information;
- the history of, and the prospects for, our company and the industry in which we compete;
- an assessment of our management, its past and present operations and the prospects for, and timing of, our future net sales;
- · the present state of our development; and

• the above factors in relation to market values and various valuation measures of other companies engaged in activities similar to ours.

An active trading market for the shares may not develop. It is also possible that after this offering the shares will not trade in the public market at or above the initial public offering price.

The underwriters do not expect to sell more than 5% of the shares in the aggregate to accounts over which they exercise discretionary authority.

Price Stabilization, Short Positions and Penalty Bids

Until the distribution of the shares is completed, SEC rules may limit underwriters and selling group members from bidding for and purchasing shares of our common stock. However, the underwriters may engage in transactions that stabilize the price of our common stock, such as bids or purchases to peg, fix or maintain that price.

In connection with this offering, the underwriters may purchase and sell shares of our common stock in the open market. These transactions may include short sales, purchases on the open market to cover positions created by short sales and stabilizing transactions. Short sales involve the sale by the underwriters of a greater number of shares than they are required to purchase in this offering. "Covered" short sales are sales made in an amount not greater than the underwriters' option to purchase additional shares described above. The underwriters may close out any covered short position by either exercising their option or purchasing shares in the open market. In determining the source of shares to close out the covered short position, the underwriters will consider, among other things, the price of shares available for purchase in the open market as compared to the price at which they may purchase shares through the option granted to them. "Naked" short sales are sales in excess of the overallotment option. The underwriters must close out any naked short position by purchasing shares in the open market. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of our common stock in the open market after pricing that could adversely affect investors who purchase in this offering. Stabilizing transactions consist of various bids for or purchases of shares of our common stock made by the underwriters in the open market prior to the completion of this offering.

The underwriters may also impose a penalty bid. This occurs when a particular underwriter repays to the underwriters a portion of the underwriting discount received by it because the representatives have repurchased shares sold by or for the account of such underwriter in stabilizing or short covering transactions.

Similar to other purchase transactions, the underwriters' purchases to cover the syndicate short sales may have the effect of raising or maintaining the market price of our common stock or preventing or retarding a decline in the market price of our common stock. As a result, the price of our common stock may be higher than the price that might otherwise exist in the open market. The underwriters may conduct these transactions on Nasdaq, in the over-the-counter market or otherwise.

Neither we nor any of the underwriters make any representation or prediction as to the direction or magnitude of any effect that the transactions described above may have on the price of our common stock. In addition, neither we nor any of the underwriters make any representation that the representatives will engage in these transactions or that these transactions, once commenced, will not be discontinued without notice.

Electronic Offer, Sale and Distribution of Shares

In connection with this offering, certain of the underwriters or securities dealers may distribute prospectuses by electronic means, such as e-mail. In addition, one or more of the underwriters may facilitate internet distribution for this offering to certain of their internet subscription customers. Any such underwriter may allocate a limited number of shares for sale to its online brokerage customers. An electronic prospectus is available on the internet websites maintained by any such underwriter. Other than the prospectus in electronic format, the information on the websites of any such underwriter is not part of this prospectus.

Other Relationships

The underwriters and their respective affiliates are full service financial institutions engaged in various activities, which may include securities trading, commercial and investment banking, financial advisory, investment management, investment research, principal investment, hedging, financing and brokerage activities. Certain of the underwriters and their affiliates have engaged in, and may in the future engage in, investment banking and other commercial dealings in the ordinary course of business with us or our affiliates. They have received, or may in the future receive, customary fees and commissions for these transactions.

In the ordinary course of their various business activities, the underwriters and their respective affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers, and such investment and securities activities may involve securities and/or instruments of the issuer. The underwriters and their respective affiliates may also make investment recommendations and/or publish or express independent research views in respect of such securities or instruments and may at any time hold, or recommend to clients that they acquire, long and/or short positions in such securities and instruments.

Selling Restrictions

European Economic Area

In relation to each Member State of the European Economic Area which has implemented the Prospectus Directive (each, a "Relevant Member State") an offer to the public of any shares of our common stock may not be made in that Relevant Member State, except that an offer to the public in that Relevant Member State of any shares of our common stock may be made at any time under the following exemptions under the Prospectus Directive, if they have been implemented in that Relevant Member State:

- (a) to any legal entity which is a "qualified investor" as defined in the Prospectus Directive;
- (b) to fewer than 100 or, if the Relevant Member State has implemented the relevant provision of the 2010 PD Amending Directive, 150, natural or legal persons (other than qualified investors as defined in the Prospectus Directive), as permitted under the Prospectus Directive, subject to obtaining the prior consent of the representatives for any such offer; or
- (c) in any other circumstances falling within Article 3(2) of the Prospectus Directive, provided that no such offer of shares of our common stock shall result in a requirement for the publication by us or any underwriter of a prospectus pursuant to Article 3 of the Prospectus Directive.

For the purposes of this provision, the expression an "offer to the public" in relation to any shares of our common stock in any Relevant Member State means the communication in any form and by any means of sufficient information on the terms of the offer and any shares of our common stock to be offered so as to enable an investor to decide to purchase any shares of our common stock, as the same may be varied in that Member State by any measure implementing the Prospectus Directive in that Member State, the expression "Prospectus Directive" means Directive 2003/71/EC (and amendments thereto, including the 2010 PD Amending Directive, to the extent implemented in the Relevant Member State), and includes any relevant implementing measure in the Relevant Member State, and the expression "2010 PD Amending Directive" means Directive 2010/73/EU.

United Kingdom

Each underwriter has represented and agreed that:

(a) it has only communicated or caused to be communicated and will only communicate or cause to be communicated an invitation or inducement to engage in investment activity (within the meaning of Section 21 of the Financial Services and Markets Act 2000 (the "FSMA")) received by it in connection with the issue or sale of the shares of our common stock in circumstances in which Section 21(1) of the FSMA does not apply to us; and

(b) it has complied and will comply with all applicable provisions of the FSMA with respect to anything done by it in relation to the shares of our common stock in, from or otherwise involving the United Kingdom.

Canada

The shares of common stock may be sold only to purchasers purchasing, or deemed to be purchasing, as principal that are accredited investors, as defined in National Instrument 45-106 Prospectus Exemptions or subsection 73.3(1) of the Securities Act (Ontario), and are permitted clients, as defined in National Instrument 31-103 Registration Requirements, Exemptions and Ongoing Registrant Obligations. Any resale of the shares of common stock must be made in accordance with an exemption from, or in a transaction not subject to, the prospectus requirements of applicable securities laws.

Securities legislation in certain provinces or territories of Canada may provide a purchaser with remedies for rescission or damages if this prospectus (including any amendment thereto) contains a misrepresentation, provided that the remedies for rescission or damages are exercised by the purchaser within the time limit prescribed by the securities legislation of the purchaser's province or territory. The purchaser should refer to any applicable provisions of the securities legislation of the purchaser's province or territory for particulars of these rights or consult with a legal advisor.

Pursuant to section 3A.3 of National Instrument 33-105 Underwriting Conflicts (NI 33-105), the underwriters are not required to comply with the disclosure requirements of NI 33-105 regarding underwriter conflicts of interest in connection with this offering.

Hong Kong

The common stock may not be offered or sold in Hong Kong by means of any document other than (i) in circumstances which do not constitute an offer to the public within the meaning of the Companies Ordinance (Cap. 32, Laws of Hong Kong), or (ii) to "professional investors" within the meaning of the Securities and Futures Ordinance (Cap. 571, Laws of Hong Kong) and any rules made thereunder, or (iii) in other circumstances which do not result in the document being a "prospectus" within the meaning of the Companies Ordinance (Cap. 32, Laws of Hong Kong) and no advertisement, invitation or document relating to the shares may be issued or may be in the possession of any person for the purpose of issue (in each case whether in Hong Kong or elsewhere), which is directed at, or the contents of which are likely to be accessed or read by, the public in Hong Kong (except if permitted to do so under the laws of Hong Kong) other than with respect to common shares which are or are intended to be disposed of only to persons outside Hong Kong or only to "professional investors" within the meaning of the Securities and Futures Ordinance (Cap. 571, Laws of Hong Kong) and any rules made thereunder.

Singapore

This prospectus has not been registered as a prospectus with the Monetary Authority of Singapore.

Accordingly, this prospectus and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the common stock may not be circulated or distributed, nor may the common shares be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (i) to an institutional investor under Section 274 of the Securities and Futures Act, Chapter 289 of Singapore (the "SFA"), (ii) to a relevant person pursuant to Section 275(1), or any person pursuant to Section 275(1A), and in accordance with the conditions specified in Section 275 of the SFA or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA, in each case subject to compliance with conditions set forth in the SFA.

Where the common stock are subscribed or purchased under Section 275 of the SFA by a relevant person which is:

- (a) a corporation (which is not an accredited investor (as defined in Section 4A of the SFA)) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited investor; or
- (b) a trust (where the trustee is not an accredited investor) whose sole purpose is to hold investments and each beneficiary of the trust is an individual who is an accredited investor, shares, debentures and units of shares and debentures of that corporation or the beneficiaries' rights and interest (howsoever described) in that trust shall not be transferred within six months after that corporation or that trust has acquired the common shares pursuant to an offer made under Section 275 of the SFA except:
- (i) to an institutional investor (for corporations, under Section 274 of the SFA) or to a relevant person defined in Section 275(2) of the SFA, or to any person pursuant to an offer that is made on terms that such shares, debentures and units of shares and debentures of that corporation or such rights and interest in that trust are acquired at a consideration of not less than S\$200,000 (or its equivalent in a foreign currency) for each transaction, whether such amount is to be paid for in cash or by exchange of securities or other assets, and further for corporations, in accordance with the conditions specified in Section 275 of the SFA;
- (ii) where no consideration is or will be given for the transfer; or
- (iii) where the transfer is by operation of law.

Switzerland

The common stock may not be publicly offered in Switzerland and will not be listed on the SIX Swiss Exchange (the "SIX") or on any other stock exchange or regulated trading facility in Switzerland. This document has been prepared without regard to the disclosure standards for issuance prospectuses under art. 652a or art. 1156 of the Swiss Code of Obligations or the disclosure standards for listing prospectuses under art. 27 ff. of the SIX Listing Rules or the listing rules of any other stock exchange or regulated trading facility in Switzerland. Neither this document nor any other offering or marketing material relating to the common shares or the offering may be publicly distributed or otherwise made publicly available in Switzerland.

Neither this document nor any other offering or marketing material relating to the offering, or the common stock have been or will be filed with or approved by any Swiss regulatory authority. In particular, this document will not be filed with, and the offer of common stock will not be supervised by, the Swiss Financial Market Supervisory Authority FINMA, and the offer of common shares has not been and will not be authorized under the Swiss Federal Act on Collective Investment Schemes ("CISA"). Accordingly, no public distribution, offering or advertising, as defined in CISA, its implementing ordinances and notices, and no distribution to any non-qualified investor, as defined in CISA, its implementing ordinances and notices, shall be undertaken in or from Switzerland, and the investor protection afforded to acquirers of interests in collective investment schemes under CISA does not extend to acquirers of common stock.

United Arab Emirates

This offering has not been approved or licensed by the Central Bank of the United Arab Emirates (the "UAE"), Securities and Commodities Authority of the UAE and/or any other relevant licensing authority in the UAE including any licensing authority incorporated under the laws and regulations of any of the free zones established and operating in the territory of the UAE, in particular the Dubai Financial Services Authority ("DFSA"), a regulatory authority of the Dubai International Financial Centre ("DIFC"). The offering does not constitute a public offer of securities in the UAE, DIFC and/or any other free zone in accordance with the Commercial Companies Law, Federal Law No 8 of 1984 (as amended), DFSA Offered Securities Rules and Nasdaq Dubai Listing Rules, accordingly, or otherwise. The common shares may not be offered to the public in the UAE and/or any of the free zones.

The common shares may be offered and issued only to a limited number of investors in the UAE or any of its free zones who qualify as sophisticated investors under the relevant laws and regulations of the UAE or the free zone concerned.

France

This prospectus (including any amendment, supplement or replacement thereto) is not being distributed in the context of a public offering in France within the meaning of Article L. 411-1 of the French Monetary and Financial Code (Code monétaire et financier).

This prospectus has not been and will not be submitted to the French Autorité des marchés financiers (the "AMF") for approval in France and accordingly may not and will not be distributed to the public in France.

Pursuant to Article 211-3 of the AMF General Regulation, French residents are hereby informed that:

- 1. the transaction does not require a prospectus to be submitted for approval to the AMF;
- 2. persons or entities referred to in Point 2°, Section II of Article L. 411-2 of the Monetary and Financial Code may take part in the transaction solely for their own account, as provided in Articles D. 411-1, D. 734-1, D. 744-1, D. 754-1 and D. 764-1 of the Monetary and Financial Code; and
- 3. the financial instruments thus acquired cannot be distributed directly or indirectly to the public otherwise than in accordance with Articles L. 411-1, L. 411-2, L. 412-1 and L. 621-8 to L. 621-8-3 of the Monetary and Financial Code.

This prospectus is not to be further distributed or reproduced (in whole or in part) in France by the recipients of this prospectus. This prospectus has been distributed on the understanding that such recipients will only participate in the issue or sale of our common stock for their own account and undertake not to transfer, directly or indirectly, our common stock to the public in France, other than in compliance with all applicable laws and regulations and in particular with Articles L. 411-1 and L. 411-2 of the French Monetary and Financial Code.

LEGAL MATTERS

The validity of the shares of common stock offered by this prospectus will be passed upon for us by our counsel, Dentons US LLP. Certain legal matters will be passed upon for the underwriters by Latham & Watkins LLP. Members of Dentons US LLP own interests that will represent more than \$50,000 of our common stock.

EXPERTS

The consolidated financial statements of Electrocore, LLC, subsidiaries and affiliate as of December 31, 2017 and 2016, and for each of the years in the two-year period ended December 31, 2017, have been included herein and in the registration statement in reliance upon the report of KPMG LLP, independent registered public accounting firm, appearing elsewhere herein, and upon the authority of said firm as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We have filed with the SEC a registration statement on Form S-1 under the Securities Act with respect to the shares of common stock offered hereby. This prospectus, which constitutes a part of the registration statement, does not contain all of the information set forth in the registration statement or the exhibits filed therewith. For further information about us and the common stock offered hereby, reference is made to the registration statement and the exhibits filed therewith. Statements contained in this prospectus regarding the contents of any contract or any other document that is filed as an exhibit to the registration statement are not necessarily complete, and in each instance we refer you to the copy of such contract or other document filed as an exhibit to the registration statement. A copy of the registration statement and the exhibits filed therewith may be inspected without charge at the public reference room maintained by the SEC, located at 100 F Street, NE, Washington, DC 20549, and copies of all or any part of the registration statement may be obtained from that office. Please call the SEC at 1-800-SEC-0330 for further information about the public reference room. The SEC also maintains a website that contains reports, proxy and information statements and other information regarding registrants that file electronically with the SEC. The address of the website is www.sec.gov.

We currently do not file periodic reports with the SEC. Upon the closing of our initial public offering, we will be required to file periodic reports, proxy statements and other information with the SEC pursuant to the Exchange Act. These periodic reports, proxy statements and other information will be available for inspection and copying at the SEC's public reference facilities and the website of the SEC referred to above.

We also maintain a website at www.electrocore.com. Upon completion of this offering, you may access these materials at our website free of charge as soon as reasonably practicable after they are electronically filed with, or furnished to, the SEC. Information contained on our website is not a part of this prospectus and the inclusion of our website address in this prospectus is an inactive textual reference only.

ELECTROCORE, LLC, SUBSIDIARIES AND AFFILIATE Index to Consolidated Financial Statements

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Report of Independent Registered Public Accounting Firm

To the Members and Board of Directors Electrocore, LLC, Subsidiaries and Affiliate:

Opinion on the Consolidated Financial Statements

We have audited the accompanying consolidated balance sheets of Electrocore, LLC, Subsidiaries and Affiliate (the Company) as of December 31, 2017 and 2016, the related consolidated statements of operations, comprehensive loss, changes in convertible preferred units and members' equity (deficit), and cash flows for each of the years in the two-year period ended December 31, 2017, and the related notes (collectively, the consolidated financial statements). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the years in the two-year period ended December 31, 2017, in conformity with U.S. generally accepted accounting principles.

Basis for Opinion

These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB and in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

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We have served as the Company's auditor since 2015.

Short Hills, New Jersey March 30, 2018

ELECTROCORE, LLC, SUBSIDIARIES AND AFFILIATE Consolidated Balance Sheets (In U.S. dollars, except for unit data)

	Decem	ber 31,
	2017	2016
Assets		
Current assets:		
Cash and cash equivalents	\$ 13,224,194	\$ 416,336
Marketable securities	23,950,566	
Accounts receivable, net	103,209	24,710
Inventories	327,787	48,471
Prepaid expenses and other current assets	570,755	16,422
Deferred financing costs	856,895	
Total current assets	39,033,406	505,939
Property and equipment – net	168,646	48,426
Security deposits	30,604	67,651
Total assets	\$ 39,232,656	\$ 622,016
Liabilities, Convertible Preferred Units and Members' Equity (Deficit)		,
Current liabilities:		
Accounts payable and accrued expenses	\$ 3,879,775	\$ 3,296,539
Warrant liability	2,239,544	480,636
Derivative instrument related to convertible bridge notes	_	358,146
Total current liabilities	6,119,319	4,135,321
Noncurrent liabilities:		
Convertible bridge notes, net of unamortized debt discount and issuance costs of \$1,955,137 at December 31, 2016	_	3,665,993
Deferred rent	306,886	355,724
Total liabilities	6,426,205	13,495,180
Commitments and contingencies (Note 15)		
Convertible Preferred Units:		
Series A Preferred Units, 71,050,860 Units authorized at December 31, 2017 and 2016, 70,918,506 Units issued and		
outstanding at December 31, 2017 and 2016	53,518,463	53,518,463
Series B Preferred Units, 123,000,000 Units authorized at December 31, 2017 and 0 units authorized at December 31,		
2016; 105,186,020 Units issued and outstanding at December 31, 2017	68,755,544	_
Series B-1 Preferred Units, 23,529,412 Units authorized at December 31, 2017 and 0 Units authorized at December 31,		
2016; 0 Units issued and outstanding at December 31, 2017 and 2016	_	_
Total convertible preferred units	122,274,007	53,518,463
Members' equity (deficit):		55,525,155
Common Units, 600,000,000 Units authorized at December 31, 2017 and 150,000,000 units authorized at		
December 31, 2016; 218,982,140 Units issued and outstanding at December 31, 2017; 90,711,018 Units issued and		
outstanding at December 31, 2016	40,180,619	30,912,091
Additional paid-in capital	22,596,485	8,126,416
Accumulated deficit	(152,928,928)	(100,706,419
Accumulated other comprehensive income	80,213	214,006
Total equity (deficit) attributable to Electrocore, LLC, subsidiaries and affiliate	(90,071,611)	(61,453,906
Noncontrolling interest	604,055	400,421
Total members' equity (deficit)	(89,467,556)	(61,053,485)
	\$ 39,232,656	
Total liabilities, convertible preferred units and members' equity (deficit)	\$ 39,232,036	\$ 622,016

See accompanying notes to consolidated financial statements.

ELECTROCORE, LLC, SUBSIDIARIES AND AFFILIATE Consolidated Statements of Operations (In U.S. dollars, except for unit data)

		Years ended l	Decemb	
		2017		2016
Net sales	\$	811,457	\$	254,138
Cost of goods sold		518,532		123,731
Gross profit		292,925		130,407
Operating expenses:				
Research and development		7,830,868		7,971,342
Selling, general and administrative	1	8,106,647		7,169,305
Total operating expenses	2	5,937,515	1	15,140,647
Loss from operations	(2	5,644,590)	(1	15,010,240)
Other expense (income)				
Interest expense		6,295,854		234,352
Net loss on settlement of convertible bridge notes		3,868,771		_
Amortization of debt issuance costs		827,317		536,893
Interest and other income, net		(99,027)		_
Change in fair value of warrant liability		(861,773)		_
Change in fair value of derivative instrument related to convertible bridge notes		348,163		_
Other		4,885		_
Net loss	(3	6,028,780)	(1	15,781,485)
Less: Net loss attributable to noncontrolling interest		(236,358)		(44,146)
Net loss attributable to Electrocore, LLC, subsidiaries and affiliate	\$ (3	5,792,422)	\$ (1	15,737,339)
Pro forma net loss per Unit — Basic and Diluted (unaudited) (Note 9)	\$	(0.12)	\$	(0.10)
Pro forma weighted average number of Common Units used to calculate net loss per Unit — Basic and Diluted			-	
(unaudited) (Note 9)	30	8,297,737	15	50,566,206

See accompanying notes to consolidated financial statements.

ELECTROCORE, LLC, SUBSIDIARIES AND AFFILIATE Consolidated Statements of Comprehensive Loss (In U.S. dollars)

	Years ended December 31,	
	2017	2016
Net loss	\$ (36,028,780)	\$ (15,781,485)
Other comprehensive income:		
Foreign currency translation adjustment	(113,492)	8,742
Unrealized loss on securities available for sale	(20,301)	
Other comprehensive (loss) income:	(133,793)	8,742
Comprehensive loss	(36,162,573)	(15,772,743)
Less: Net comprehensive loss attributable to noncontrolling interest	(222,405)	(59,067)
Net comprehensive loss attributable to Electrocore, LLC, subsidiaries and affiliates	\$ (35,940,168)	\$ (15,713,676)

See accompanying notes to consolidated financial statements.

ELECTROCORE, LLC, SUBSIDIARIES AND AFFILIATE Consolidated Statements of Changes in Convertible Preferred Units and Members' Equity (Deficit) (In U.S. dollars, except for unit data)

		Convertible P	Preferred Units	s	Electrocore, LLC Stockholders								
	Seri	es A ed Units	Serie Preferre	es B	Com Un		Additional		Accumulated	Accumulated other	Equity (deficit) attributable to Electrocore, LLC, subsidiaries	N W.	Total
	Units	Amount	Units	Amount	Units	Amount	paid-in capital	units	deficit	income	and affiliates	Noncontrolling interest	members' equity (deficit)
Balances as of January 1, 2016 Net loss	63,327,023	\$47,325,765		s –	80,029,864	\$30,912,091 —	\$ 6,764,497	\$ (82,658) —	\$ (84,969,080) (15,737,339)	\$ 190,343 —	\$(47,184,807) (15,737,339)	\$ 399,518 (44,146)	\$ (49,920,474) (15,781,485)
Other comprehensive income	_	_	_	_	_	_	_	_	_	23,663	23,663	(14,921)	8,742
Issuance of Series A Preferred	. 200 5.4	2 200 007											
Units, net Conversion of term loan, including accrued interest to Series A Preferred	4,266,741	3,366,667	_	_			_	_	_	_	_	_	=
Units, net	1,529,335	1,299,935	_	_	_	_	_	_	_	_	_	_	_
Conversion of convertible bridge notes, including accrued interest to Series A Preferred													
Units	1,795,407	1,526,096	_	_		_	_	_	_		_	_	_
Noncontrolling interest contributions	_	_	_	_	_	_	_	_	_	_	_	59,970	59,970
Unit-based compensation		_		_		_	142,583	_	_	_	142,583	_	142,583
Cancellation of											142,000		142,303
Treasury Units Common Units issued in connection with convertible bridge notes, net	_	_	_	_	10,681,154	_	(82,658) 1,301,994	82,658	_	_	1,301,994	_	1,301,994
Balances as of													
Net loss	70,918,506	\$53,518,463		<u> </u>	90,711,018	\$30,912,091 —	\$ 8,126,416 —	<u>\$ —</u>	\$(100,706,419) (35,792,423)	<u>\$ 214,006</u> —	\$(61,453,906) (35,792,423)	\$ 400,421 (236,358)	\$\(\((61,053,485)\)\)\((36,028,781)\)
Other comprehensive loss	_	_	_	_	_	_	_	_	_	(133,793)	(133,793)	_	(133,793)
Issuance of Series B Preferred Units, net	_	_	105,186,020	68,755,544	18,340,000	4,074,447	(2,012,611)	_	_	_	2,061,836	_	2,061,836
Noncontrolling interest contributions	_	_	_	_	_	_	_	_	_	_	_	439,992	439,992
Unit-based							462 220				462 220	·	
compensation Common Units issued in connection with convertible bridge notes, net	_	_	_	_	36,565,948	5,194,081	462,329 (409,735)	_	_	_	462,329 4,784,346	_	462,329 4,784,346
Common Units issued in exchange for elimination of													
preference					73,365,174		16,430,086		(16,430,086)				
Balances as of December 31, 2017	70,918,506	\$53,518,463	105,186,020	\$68,755,544	218,982,140	\$40,180,619	\$22,596,485	<u>\$</u>	<u>\$(152,928,928)</u>	\$ 80,213	\$ (90,071,611)	\$ 604,055	\$ (89,467,556)

See accompanying notes to consolidated financial statements.

ELECTROCORE, LLC, SUBSIDIARIES AND AFFILIATE Consolidated Statements of Cash Flows (In U.S. dollars)

Case Income from operating activities: 2017 2016 Net Nets \$ 36,028,700 \$ (15,781,485) Net Signatures to reconcile net loss to net cash used in operating activities: 6,079,609 \$ 53,893 Change in fair value on warrants and embedded derivative (11,45,000) — Non-cash interest expense on convertible bridge notes 1,045,000 — Unit-based compensation 32,30 \$ 32,25 Description of the control of			Years ended December 31,		
Net los \$ (36,028,780) \$ (15,781,485) Adjustments to reconcile net loss to net cash used in operating activities: 6,079,690 536,893 Change in fair value on warrants and embedde derivative (103,500) 36,893 Non-cash interest expense on convertible bridge notes 10,45,000 32,366 Not loss on settlement of convertible bridge note 3,868,71 - Los on disposal of property and equipment 3,868,71 - Changes in operating assets and liabilities: - 2,744 Other (78,499) 75,113 Inventories (279,316) 1,006 Perposit expenses and other assets (279,316) 1,006 Perposit expenses and other assets (37,289) (33,237,50) Perposit expenses and other assets (279,316) 1,006 Perposit expenses and other assets (37,289) (33,237,50) Cash flows from insuring activities (23,247,517) - Purchase of markenable securities (38,600,00) - Purchase of markenable securities (38,600,00) - Purchase of markenable securities <t< th=""><th></th><th>2017</th><th>2016</th></t<>		2017	2016		
Adminstraction of cebu fictors to net cash used in operating activities: Amontrolation of cebu fictors and insures costs Change in fair value on warants and embedded derivative Non-cash interest expense on convertible bridge notes Discontinuous control of the discontinuous		# (DC 000 F00)	Φ (45 B04 405)		
Amortization of ebet discount and issuance costs Change in fair value on warrants and embedded derivative Non-cash interest expense on convertible bridge notes 1,045,000 Non-cash interest expense on convertible bridge notes 1,045,000 1,		\$ (36,028,780)	\$ (15,781,485)		
Change in fair value on warrants and embedded derivative 1,045,000 — Non-cash interest expense on convertible bridge notes 462,329 142,833 Depreciation 3,808,771 — Loss on disposal of property and equipment 436,641 — Classes in operating asses and liabilities: (28,49) 5,131 Classes in operating asses and inbellities: (279,316) 1,006 Prepaid expenses and other assets (317,268) 67,331 Accounts receivable, net (28,39) 1,073,414 Deferred rent (48,89) 3,181 Accounts payable and accrued expenses (312,325) (67,331 Accounts payable and accrued expenses (25,392,59) (32,225,76) Cash flows from investing activities (28,392,59) (32,225,76) Cash flows from maturities of marketable securities (24,275,17) — Purcase of marketable securities (48,400) — Proceeds from instance of convertible bridge notes (48,200) — Proceeds from issuance of convertible bridge notes (19,304) — Proceeds from issuance of convert		C 070 C00	F2C 002		
Non-cash interest expense on convertible bridge notes		-,,	530,893		
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Supplemental schedule of noncash financing activity: Conversion of term loan, including accrued interest, to Series A Preferred Units, net Conversion of convertible bridge notes, including accrued interest, to Series A Preferred Units Common Units issued in exchange for elimination of liquidation preference Common Units issued in connection with convertible bridge notes Series B warrants issued in connection with convertible bridge notes Conversion of convertible bridge notes including accrued interest to Series B Preferred Units Conversion of convertible bridge notes including accrued interest to Series B Preferred Units Common units issued in connection with Series B financing Common warrants issued in connection with Series B financing Debt issuance costs included in accounts payable Deferred financing costs accrued Cash paid during the year for:					
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Conversion of convertible bridge notes, including accrued interest, to Series A Preferred Units Common Units issued in exchange for elimination of liquidation preference Common Units issued in connection with convertible bridge notes Series B warrants issued in connection with convertible bridge notes Conversion of convertible bridge notes including accrued interest to Series B Preferred Units Common units issued in connection with Series B financing Common units issued in connection with Series B financing Common warrants issued in connection with Series B financing Debt issuance costs included in accounts payable Deferred financing costs accrued Cash paid during the year for:					
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Common Units issued in connection with convertible bridge notes Series B warrants issued in connection with convertible bridge notes Conversion of convertible bridge notes including accrued interest to Series B Preferred Units Common units issued in connection with Series B financing Common warrants issued in connection with Series B financing Debt issuance costs included in accounts payable Deferred financing costs accrued Cash paid during the year for:			1,526,096		
Series B warrants issued in connection with convertible bridge notes Conversion of convertible bridge notes including accrued interest to Series B Preferred Units Common units issued in connection with Series B financing Common warrants issued in connection with Series B financing Debt issuance costs included in accounts payable Deferred financing costs accrued Cash paid during the year for:					
Conversion of convertible bridge notes including accrued interest to Series B Preferred Units Common units issued in connection with Series B financing Common warrants issued in connection with Series B financing Debt issuance costs included in accounts payable Deferred financing costs accrued Cash paid during the year for:					
Common units issued in connection with Series B financing Common warrants issued in connection with Series B financing Debt issuance costs included in accounts payable Deferred financing costs accrued Cash paid during the year for:			480,636		
Common warrants issued in connection with Series B financing Debt issuance costs included in accounts payable Deferred financing costs accrued Cash paid during the year for:	Conversion of convertible bridge notes including accrued interest to Series B Preferred Units				
Debt issuance costs included in accounts payable Deferred financing costs accrued Cash paid during the year for: 250,215 458,901 —			_		
Deferred financing costs accrued 458,901 — Cash paid during the year for:		362,081			
Cash paid during the year for:		-	250,215		
		458,901	_		
Interest \$ 373 \$ 43,209		Φ 070	d 40.000		
	Interest	\$ 3/3	a 43,209		

See accompanying notes to consolidated financial statements.

ELECTROCORE, LLC, SUBSIDIARIES AND AFFILIATE

Notes to Consolidated Financial Statements December 31, 2017 and 2016

(1) Business and Organization

Electrocore, LLC (electroCore) is a bioelectronic medicine company, engaged in developing a range of patient-administered non-invasive Vagus Nerve Stimulation (nVNS) therapies initially focused on the treatment of multiple conditions in neurology, rheumatology and other fields. electroCore was founded in 2005 and its focus currently is on primary headache (migraine and cluster headache), with trials continuing in other neurological and inflammatory disorders.

electroCore, headquartered in New Jersey, has wholly owned subsidiaries as follows: electroCore Bermuda, Ltd., electroCore Germany GmbH, and electroCore UK Ltd. In addition, an affiliate, electroCore (Aust) Pty Limited, is subject to electroCore's control on bases other than voting interests and is a variable interest entity (VIE), for which electroCore is the primary beneficiary.

electroCore, its wholly owned subsidiaries and electroCore (Aust) Pty Limited are collectively referred to as the Company.

In Europe, the Company has received CE Marks for its noninvasive neuro-stimulation therapy (gammaCore®) to treat primary headache, bronchoconstriction, epilepsy, gastric motility disorders, and depression and anxiety.

In April 2017, U.S. Food and Drug Administration (FDA) released the use of gammaCore[®], a non-invasive vagus nerve stimulator therapy, for the acute treatment of pain associated with episodic cluster headache in adult patients. gammaCore[®] transmits a mild electrical stimulation to the vagus nerve through the skin, resulting in a reduction of pain, besides other benefits. This was the first FDA product release for the Company in the U.S.

In January 2018, the FDA released the use of gammaCore® for the treatment of pain associated with migraine headache in adult patients.

(2) Summary of Significant Accounting Policies

(a) Principles of Consolidation

The accompanying consolidated financial statements include the accounts of electroCore and its wholly owned subsidiaries. electroCore (Aust) Pty Limited, a VIE for which electroCore is the primary beneficiary, is also consolidated with the non-controlled equity presented as non-controlling interest. All intercompany balances and transactions have been eliminated in consolidation.

(b) Use of Estimates

The preparation of financial statements in conformity with U.S. generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Significant items subject to such estimates and assumptions include the useful lives of fixed assets; allowances for doubtful accounts and sales returns; valuation of inventory, property and equipment, warrants and derivative instruments, Unit-based compensation, and contingencies.

(c) Cash and Cash Equivalents

The Company considers all highly liquid investments with a maturity of three months or less when purchased to be cash equivalents and all investments with maturities of greater than three months from date of purchase are

classified as marketable securities available-for-sale. The Company maintains its U.S. operating cash balances in financial institutions which are insured by the Federal Deposit Insurance Corporation (FDIC) up to \$250,000 each. At times, such balances may be in excess of the FDIC insurance limit.

(d) Marketable Securities

Marketable securities, all of which are available-for-sale, consist of corporate debt securities, U.S. bonds, U.S. sponsored agencies and municipal bonds. Marketable securities are carried at fair value, with unrealized gains and losses reported as accumulated other comprehensive income, except for losses from impairments which are determined to be other-than-temporary. Realized gains and losses, and declines in value judged to be other-than-temporary on available-for-sale securities are included in the determination of net loss and are included in interest and other income net, at which time the average costs basis of these securities are adjusted to fair values. Fair values are based on quoted market prices at the reporting date. Interest and dividends on available-for-sale securities are included other income net.

(e) Concentration of Credit Risk

Cash, cash equivalents and marketable securities are financial instruments that potentially subject the Company to concentration of credit risk. The Company periodically invests its cash in corporate debt securities, U.S. bonds, U.S. sponsored agencies and municipal bonds with strong credit ratings. The Company has established guidelines relative to diversification and maturities that are designed to help ensure safety and liquidity. These guidelines are periodically reviewed to take advantage of trends in yields and interest rates.

(f) Accounts Receivable

Accounts receivable are recorded at the invoiced amount and do not bear interest. The Company maintains an allowance for doubtful accounts for estimated losses inherent in its accounts receivable portfolio. Management considers an account receivable to be past due when it is not settled under its stated terms. In establishing the required allowance, management considers historical losses adjusted to take into account current market conditions and customers' financial condition, the amount of receivables in dispute, and the current receivables aging and current payment patterns. Account balances are charged off against the allowance after all means of collection have been exhausted and the potential for recovery is considered remote. The Company does not have any off balance sheet credit exposure related to its customers.

The Company controls its exposure to credit risk through credit analysis and approvals, credit limits, and monitoring procedures. Collateral is generally not required for the Company's accounts receivables. Management believes the credit risk is limited.

(q) Inventories

Inventory, which consists of the raw materials, work-in-process and finished product of GammaCore, is stated at the lower of cost and net realizable value. Inventory is valued on a first in first out basis. Net realizable value is the estimated selling prices in the ordinary course of business, less reasonably predictable costs of completion, disposal, and transportation.

In addition, the Company's product is subject to strict quality control and monitoring which the Company performs throughout the manufacturing process. If certain units of product no longer meet quality specification or become obsolete, the Company records a charge to cost of sales sold to write down such unmarketable inventory to zero.

(h) Property and Equipment

Property and equipment are stated at cost. Depreciation and amortization is computed by the straight line method based on the estimated useful lives of the respective assets, as discussed below. Leasehold improvements are

amortized over the lesser of the lesse terms or the estimated useful lives of the assets. Amounts expended for maintenance and repairs are charged to expense as incurred, and expenditures for major renewals and improvements are capitalized. Upon disposition of property and equipment, the related cost and accumulated depreciation and amortization are removed from the accounts, and any gain or loss is reflected in the accompanying Consolidated Statements of Operations.

Depreciation is computed using the following estimated useful lives:

Machinery and equipment3–15 yearsFurniture and fixtures5–10 yearsComputer equipment5 years

(i) Impairment of Long-Lived Assets

Long lived assets, such as property, plant, and equipment, are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. If circumstances require a long lived asset or asset group be tested for possible impairment, the Company first compares undiscounted cash flows expected to be generated by that asset or asset group to its carrying amount. If the carrying amount of the long lived asset or asset group is not recoverable on an undiscounted cash flow basis, an impairment is recognized to the extent that the carrying amount exceeds its fair value. Fair value is determined through various valuation techniques including discounted cash flow models, quoted market values and third party independent appraisals, as considered necessary.

(j) Convertible Preferred Units

The Company has classified convertible preferred units (Series A Preferred Units and Series B Preferred Units) as temporary equity in the accompanying consolidated balance sheets due to certain change in control events that could trigger the payment of the Series A Preferred and Series B Preferred liquidation preferences being outside of the Company's control, including sale or transfer of control of the Company, as certain holders of the preferred units could cause the liquidation of the Units in these situations. The Company does not accrete the carrying values of the preferred units to the redemption values since a change in control event was not considered probable as of December 31, 2017 and 2016.

Subsequent adjustments of the carrying values to the ultimate redemption values will be made only when it becomes probable that such a change in control event will occur.

(k) Members' Equity (Deficit)

The Company's Units have no par value. Each member's liability is limited to the respective members' equity. Additional paid-in capital represents recognition of Unit-based compensation, warrants classified as equity instruments, and the fair value of Common Units issued in connection with certain convertible promissory notes (the "Bridge Notes"). The Company records cost of repurchasing member Units as Treasury Units.

(1) Revenue Recognition

The Company recognizes revenue when the following criteria are met: persuasive evidence of an arrangement exists, the customer assumes ownership and risk of loss, the sales price is fixed or determinable, and collection is reasonably assured.

Revenue, net of specialty pharmaceutical distribution discounts, is generated from sales of our gammaCore products. The gammaCore products are currently sold through a specialty pharmaceutical distributor on a fixed per-unit wholesale acquisition cost basis. The arrangement is in the form of a written agreement between the

parties. Furthermore, the terms of sales to the distributor are FOB destination, under which the title and risk of loss is assumed by the buyer at the time of receipt. Accordingly, the Company recognizes revenues when the products are received by the distributor.

The Company's policy is not to provide for returns for product sales. No allowance for returns has been provided for sales to our specialty pharmaceutical distributor. Instead, damaged or defective products are replaced at no charge under the Company's standard warranty. For the years ended December 31, 2017 and 2016, the replacement costs were immaterial.

Amounts collected on behalf of third parties, such as value added taxes, are not included in the transaction price, and not included in net revenue, as they are collected from the customer on behalf of the respective taxing authority.

Shipping and handling costs are reported as selling, general and administrative expenses.

(m) Research and Development

Research and development costs are expensed as incurred. Costs incurred for clinical trials for patients and investigators are expensed as services are performed in accordance with the agreements in place with the institutions.

(n) Unit-based Compensation

The Company measures Unit-based compensation at grant-date fair value and recognizes employee compensation expense on a straight-line basis over the vesting period of the award.

Measurement of Unit-based payment transactions with non-employees is based on the fair value of whichever is more reliably measurable: (a) the goods or services received; or (b) the equity instruments issued. The fair value of the Unit-based payment transaction is determined at the earlier of performance commitment date or performance completion date.

Determining the appropriate fair value of Unit-based awards requires the input of subjective assumptions, including the fair value of the Company's Units, the expected life of the Units, and expected volatility. The Company uses the Black-Scholes option pricing model to value its Unit-based awards. The assumptions used in calculating the fair value of Unit-based awards represent management's best estimates and involve inherent uncertainties and the application of management's judgment. As a result, if factors change and management uses different assumptions, Unit-based compensation expense could be materially different for future awards.

The expected life of the Units was estimated using the "simplified method," as the Company has no historical information regarding the expected life of the Units and employment duration for its Unit grants. The simplified method is based on the average of the vesting tranches and the contractual life of each grant. For volatility, the Company uses comparable public companies as a basis for its expected volatility to calculate the fair value of Unit grants. The risk-free interest rate is based on U.S. Treasury notes with a term approximating the expected life of the Unit.

The Company accounts for forfeitures of Unit-based awards as they occur.

(o) Warrants and Other Derivative Instruments

In connection with the issuance of certain debt and equity instruments, the Company has issued warrants to purchase equity interests. In certain circumstances, these warrants are liability classified, rather than as equity. Additionally, the debt and equity instruments may contain embedded derivative instruments, such as variable

conversion options, which are required to be evaluated under the provisions of Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) Topic 815, *Derivatives and Hedging* (ASC Topic 815), bifurcated from the host instrument and accounted for separately as a derivative instrument liability.

In 2017 and 2016, related to the issuance of the Bridge Notes, the Company issued warrants to purchase its Series B Preferred Units (see Note 12) and recorded them as liabilities due to the fact that whether the underlying Series B Preferred Units would be redeemable was not known at the time of their issuance. In addition, the Company also recognized an embedded derivative related to the conversion option of the Bridge Notes. The warrants were valued using the probability weighted expected return method and option pricing models. The embedded derivative instrument was recorded at fair value using an alternative discounted cash flow method. Key assumptions used in the valuation model were based on the terms and conditions of the warrants and the embedded derivative. At the time of the conversion of the Bridge Notes into the Series B Preferred Units, the warrants remained classified as a liability. These warrants and derivative instruments are remeasured at each balance sheet date with changes in fair value recorded in the Consolidated Statements of Operations.

(p) Foreign Currency Translation and Transactions

Operations in non-U.S. entities are recorded in the functional currency of each entity. For financial reporting purposes, the functional currency of an entity is determined by a review of the source of an entity's most predominant cash flows. The results of operations for non-U.S. dollar functional currency entities are translated from functional currencies into U.S. dollars using the average currency rate during each month, which approximates the results that would be obtained using actual currency rates on the dates of individual transactions. Assets and liabilities are translated using currency rates at the end of the period. Adjustments resulting from translating the financial statements of the foreign entities into the U.S. dollar are excluded from the determination of net loss and are recorded as a component of other comprehensive loss. Foreign currency transaction gains and losses related to assets and liabilities that are denominated in a currency other than the functional currency are reported in the Consolidated Statements of Operations in the period they occur.

(q) Income Taxes

The Company is a limited liability company, which is treated as a partnership for Federal and state income tax purposes. Accordingly, the Company is not subject to income taxes. No provision has been made for Federal and state income taxes since these taxes are the personal responsibility of the Members.

The Company assesses its risk for unrecognized tax liabilities for known or anticipated tax issues based on its analysis of whether, and the extent to which, additional taxes will be due. As of December 31, 2017 and 2016, the Company determined that it is more likely than not that a liability for tax risks are not required.

(r) Net Comprehensive Loss

Net comprehensive loss consists of net loss, foreign exchange translation adjustments and unrealized gains (losses) on securities available for sale and is presented in the Consolidated Statements of Comprehensive Loss.

(s) Fair Value of Financial Instruments

Certain assets and liabilities are reported on a recurring basis at fair value. Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. Financial assets and liabilities carried at fair value are to be

classified and disclosed in one of the following three levels of the fair value hierarchy, of which the first two are considered observable and the last is considered unobservable:

- Level 1—Quoted prices in active markets for identical assets or liabilities.
- Level 2—Observable inputs (other than Level 1 quoted prices), such as quoted prices in active markets for similar assets or liabilities, quoted prices in markets that are not active for identical or similar assets or liabilities, or other inputs that are observable or can be corroborated by observable market data.
- Level 3—Unobservable inputs that are supported by little or no market activity and that are significant to determining the fair value of the assets or liabilities, including pricing models, discounted cash flow methodologies and similar techniques.

(t) Segment Information

The Company operates in one reportable segment within the United States, Europe and Australia. Management uses one measurement of profitability and does not segregate its business for internal reporting, making operating decisions, and assessing financial performance. Net sales within the United States and outside the United States were approximately \$241,500 and \$570,000, respectively, for the year ended December 31, 2017. Sales to a U.S., UK and German customer accounted for 30%, 34% and 33% of total sales, respectively, for the year ended December 31, 2017. Net sales within the United States and outside the United States were approximately \$10,000 and \$244,000, respectively, for the year ended December 31, 2016. Sales to a UK and German customer accounted for 57% and 19% of total sales, respectively, for the year ended December 31, 2016. All long-lived assets are maintained in the United States.

(u) Deferred Financing Costs

Deferred financing costs, primarily costs of direct incremental legal, accounting and other fees relating to the Company's contemplated initial public offering ("IPO"), are capitalized as incurred. The deferred transaction costs will be offset against IPO proceeds upon the consummation of the offering. In the event the IPO is terminated which would include a postponement of 90 days or greater, any deferred transaction costs will be expensed. The Company has capitalized costs totaling \$856,895 that have been incurred in connection with ongoing equity raising initiatives.

(v) Immaterial Correction

We have made a correcting adjustment to our Consolidated Balance Sheet as of December 31, 2016 due to an immaterial prior period error regarding the classification of Series A Preferred Units in such Consolidated Balance Sheet. This correcting adjustment has appropriately classified Series A Preferred Units outside of Members' equity (deficit) and presented such amounts within mezzanine/temporary members' equity.

(w) Recent Accounting Pronouncements

In May 2014, the FASB issued Accounting Standard Update (ASU) 2014-09, *Revenue from Contracts with Customers*, Topic 606, which provides a framework for the recognition of revenue, with the objective that recognized revenues properly reflect amounts an entity is entitled to receive in exchange for goods and services. This guidance will be effective for interim and annual reporting periods beginning after December 15, 2017. The Company is in the process of evaluating the new standard and assessing the impact, if any, ASU 2014-09 will have on the Company's consolidated financial statements.

In January 2016, the FASB issued ASU 2016-01, Recognition and Measurement of Financial Assets and Financial Liabilities (Subtopic 825-10). The ASU revises the measurement and presentation of investments in certain financial assets and liabilities and enhances disclosures about those investments. The update will be

effective for fiscal years beginning after December 15, 2017. The adoption of ASU 2016-01 is to be applied on a cumulative-effect adjustment to the balance sheet as of the beginning of the fiscal year of adoption. The Company is assessing ASU No. 2016-01's impact and will adopt it when effective.

In February 2016, the FASB issued ASU No. 2016-02, *Leases* (Topic 842), which requires lessees to recognize most leases on the balance sheet. The provisions of this guidance are effective for annual periods beginning after December 15, 2018, and interim periods within those years, with early adoption permitted. The Company is assessing ASU No. 2016-02's impact and will adopt it when effective.

In August 2016, the FASB issued ASU No. 2016-15, *Statement of Cash Flows: Classification of Certain Cash Receipts and Cash Payments*, (Topic 230). This ASU will make eight targeted changes to how cash receipts and cash payments are presented and classified in the statement of cash flows. The ASU will be effective for fiscal years beginning after December 15, 2017. This standard will require adoption on a retrospective basis unless it is impracticable to apply, in which case it would be required to apply the amendments prospectively as of the earliest date practicable. The Company is assessing ASU No. 2016-15's impact and will adopt it when effective.

(3) Significant Risks and Uncertainties

The Company's budgeted cash requirements for 2018 and beyond include expenses related to continuing development and clinical evaluation of its products and therapies, as well as preparing for related commercialization of our products. Based on the Company's available cash resources and cash flow projections as of the date the consolidated financial statements were available for issuance, it believes it has sufficient funds to continue its operations and research and development programs at least through April, 2019. Until the Company can generate significant cash from its operations, the Company expects to continue to fund its operations with its available financial resources. These financial resources may not be adequate to sustain its operations and the Company will be required to finance future cash needs through the sale of additional equity or debt securities. However, the Company cannot be certain that additional financing will be available when needed or that, if available, financing will be obtained on terms favorable to the Company or its Members. The capital markets have experienced volatility in recent years, which has resulted in uncertainties with respect to availability of capital and hence the timing to meet an entity's liquidity needs. Having insufficient funds may require the Company to delay, scale-back or eliminate some or all of its programs or renegotiate less favorable terms than it would otherwise choose. Failure to obtain adequate financing also may adversely affect its ability to operate as a going concern.

In addition to the FDA release received by the Company for two indications (see Note 1), the Company is seeking approvals and clearances by the FDA for additional indications. In connection therewith, the Company will incur additional time and costs and will require additional funding to obtain such approvals and clearances. The additional time, costs, and funding is expected to be substantial.

The Company is highly dependent upon the technical and management skills of several of its officers.

The Company's potential growth may cause a significant strain on its management, operational, and financial resources. Its ability to manage its growth effectively will require it to continue to implement and improve its operational and financial systems. The Company's success also depends in large part on a limited number of current key technical, marketing, and sales employees and on the Company's ability to continue to attract and retain additional highly talented personnel.

The Company has foreign currency exchange risks related to revenue and operating expenses in currencies other than the local currencies in which they operate. The Company is exposed to currency risk from the potential changes in functional currency values of their foreign currency denominated assets, liabilities, and cash flows.

(4) Marketable Securities

The Company considers all of its current investments to be available-for-sale. Marketable securities at December 31, 2017 consisted of the following:

	Amortized Cost	Unrealized Gain	Unrealized (Loss)	Fair Value
Treasury Notes (Included in Cash and Cash Equivalents)	\$ 999,726	\$ —	\$ (86)	\$ 999,640
Corporate Debt Securities	\$19,014,590	\$ 923	\$(17,827)	\$18,997,686
Commercial Paper	2,979,367	_	(1,227)	2,978,140
U.S. Government Sponsored Agencies	1,496,824	_	(2,029)	1,494,795
Certificate of Deposits	480,000	_	(55)	479,945
Total Marketable Securities	\$23,970,781	\$ 923	\$(21,138)	\$23,950,566
Total Investments	\$24,970,507	\$ 923	\$(21,224)	\$24,950,206

Maturities of debt securities classified as available-for-sale were as follows at December 31, 2017:

	Fair Value
Due within one year	\$ 23,950,566
Due after one year through five years	
	\$ 23,950,566

The Company had no marketable securities at December 31, 2016.

(5) Fair Value Measurements

A summary of the assets and liabilities carried at fair value in accordance with the hierarchy defined above is as follows:

		F	air Value Hierarchy	•
	Carrying Value	Quoted Prices in active markets for identical instruments (Level 1)	Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
December 31, 2017				
Assets				
Cash and cash equivalents	\$13,224,194	\$13,224,194	\$ —	\$ —
Marketable Securities:				
Corporate Debt Securities	18,997,686	18,997,686	_	_
Commercial Paper	2,978,140	2,978,140	_	_
U.S. Government Sponsored Agencies	1,494,795	1,494,795	_	_
Certificate of Deposits	479,945	479,945	_	_
Total	\$37,174,760	\$37,174,760	\$ —	\$ —
Liabilities				
Warrant liabilities	\$ 2,239,544	\$ —	\$ —	\$2,239,544

		F	air Value Hierarchy	7
	Carrying Value	Quoted Prices in active markets for identical instruments (Level 1)	Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
December 31, 2016				
Assets				
Cash and cash equivalents	\$416,336	\$ 416,336	\$ —	\$ —
Liabilities				
Warrant liabilities	\$480,636	\$ —	\$ —	\$ 480,636
Derivative instrument related to convertible bridge notes	\$358,146	\$ —	\$ —	\$ 358,146

During the years ended December 31, 2017 and 2016, the Company has not changed the manner in which it values assets and liabilities that are measured at fair value using Level 3 inputs. The Company recognizes transfers between levels of the fair value hierarchy as of the end of the reporting period. There were no transfers within the hierarchy during the years ended December 31, 2017 and 2016.

Cash and cash equivalents, consisted of cash in bank checking and savings accounts, money market funds and U.S. treasury notes and are classified within Level 1 of the fair value hierarchy because they are valued using quoted market prices in active markets.

Marketable securities classified as debt securities available for sale consist of investments in of corporate debt securities, commercial paper, U.S. government sponsored agencies and certificate of deposits. The Company's marketable securities are valued using quoted prices in active markets and therefore these securities were classified as Level 1.

The warrant liability was recorded at fair value determined by using the probability weighted expected return method and option pricing models. This method of valuation involves using inputs such as the fair value of the Company's Common Units, unit price volatility, the contractual term of the warrant, risk free interest rates and dividend yields. Due to the nature of these inputs, the valuation of the warrant liability was considered a Level 3 measurement.

As of December 31, 2017 and 2016, the estimated fair values of the warrant liability were computed using the following assumptions:

	<u>2017</u>	2016
Stock price volatility	65.3%	71.7%
Risk-free interest rates	1.59%	1.33%
Annual dividend yield	0%	0%
Expected life (years)	0.65	2.50

The derivative liability as of December 31, 2016 related to the convertible bridge notes was recorded at fair value determined by using an alternative discounted cash flow method. This method of valuation involves using inputs such as (1) a 50% required rate of return, (2) 80% probability of a qualified financing round closing prior to the maturity of the convertible Bridge Notes, and (3) the option's ability to convert at a 10% discount into the expected next qualified financing round. Due to the nature of these inputs, the valuation of the derivative instrument was considered a Level 3 measurement.

A roll-forward of the recurring fair value measurements of the liabilities categorized with Level 3 inputs are as follows:

	Warrant liabilities	Derivative instrument related to convertible bridge notes
Opening Balance as of January 1, 2016	\$ —	\$ —
Additions	480,636	358,146
Settlements	_	_
Changes in fair value recognized	_	_
Closing Balance as of December 31, 2016	480,636	358,146
Additions	2,620,681	1,789,472
Settlements	_	(2,495,781)
Changes in fair value recognized	(861,773)	348,163
Closing Balance as of December 31, 2017	\$2,239,544	<u>\$</u>

During 2017, the warrant liability increased due to the issuance of additional Bridge Notes, the issuance of Series B Preferred Units as well as fees to bankers and advisors all of which included additional warrants deemed to be liability classified.

During 2017, the embedded derivative increased due to the issuance of additional Bridge Notes which contained the conversion feature deemed to be a derivative. As of December 31, 2017, the derivative instrument related to the Convertible Bridge Notes was eliminated at the time of the conversion of the Bridge Notes to the Series B Preferred Units.

At December 31, 2016, the fair value of the Company's convertible bridge notes outstanding was \$5,621,130. The convertible bridge notes do not have quoted prices in active markets and are valued using a discounted cash flow methodology. This methodology uses significant unobservable inputs, which are deemed to be level 3 inputs in the fair value hierarchy.

(6) Inventories

Inventories as of December 31, 2017 and 2016 consisted of the following:

	2017	2016
Raw materials	\$116,909	\$15,267
Work in process	17,115	_
Finished goods	193,763	33,204
	\$327,787	\$48,471

(7) Property and Equipment — Net

Property and equipment, net as of December 31, 2017 and 2016 consisted of the following:

	2017	2016
Machinery and equipment	\$ 452,614	\$ 379,614
Furniture and fixture	156,512	87,664
Computer equipment	138,534	127,856
Property, plant and equipment — gross	747,660	595,134
Less accumulated depreciation and amortization	(579,014)	(546,708)
Property, plant and equipment — net	\$ 168,646	\$ 48,426

Depreciation and amortization expense for the years ended December 31, 2017 and 2016 were \$32,306 and \$53,425, respectively.

(8) Accounts Payable and Accrued Expenses

Accounts payable and accrued expenses as of December 31, 2017 and 2016 consisted of the following:

	2017	2016
Accrued expenses	\$ 2,380,059	\$ 740,832
Accounts payable	840,383	2,241,117
Due to employees	659,333	225,963
Accrued interest expense		88,627
	\$ 3,879,775	\$ 3,296,539

(9) Pro Forma Net Loss Per Unit (Unaudited)

Unaudited pro forma basic and diluted net loss per unit for the years ended December 31, 2017 and 2016, gives effect to the assumed automatic conversion into Common Units of all of our Series A Preferred Units and Series B Preferred Units immediately prior to the closing of an initial public offering (IPO) by the Company. In connection with such automatic conversion, the Series A Preferred Unit will convert into 70,918,506 shares of the Company's common stock on a conversion ratio of 1:1 and the Series B Preferred Unit will also convert into 105,186,020 shares of the Company's common stock on a conversion ratio of 1:1. For purposes of pro forma basic and diluted net loss per unit, all Series A Preferred Units and Series B Preferred Units have been treated as though they have been converted to common stock at the later of the issuance date or January 1, 2016. Unaudited pro forma loss per unit does not consider shares issued in an IPO.

In addition, unaudited pro forma net loss per Unit gives effect to income tax adjustments as if the Company was a taxable entity as of the beginning of the period. Prior to consummation of an IPO, the Company will convert into a C-corporation and will be subject to federal and state income taxes.

The Company has reported a net loss for the years ended December 31, 2017 and 2016. Further, based on the Company's history of generating operating losses and its anticipation of operating losses continuing in the foreseeable future, the Company has determined that it would not have been more likely than not that the tax benefits from these net operating losses would be realized and a full valuation allowance against all deferred tax assets would be recorded on a pro forma basis. Therefore, for the purposes of the pro forma tax provision, income tax expense is determined to be zero.

The Company has excluded all common equivalent shares outstanding for Profits Interests, warrants and convertible instruments from the calculation of diluted net loss per share because all such securities are antidilutive.

The following table summarizes the computation of pro forma basic and diluted net loss per unit attributable to common stockholders for the years ended December 31, 2017 and 2016.

	Years ended December 31,	
Numerator — Basic and Diluted	2017	2016
Loss from operations before income taxes	\$ (35,792,422)	\$ (15,737,339)
Pro forma provisions/(benefit) for income taxes	— (55,75 <u>2</u> ,1 <u>2</u> 2)	— (15,757,555)
Pro forma net loss	\$ (35,792,422)	\$ (15,737,339)
Denominator — Basic and Diluted		
Weighted average pro forma Common Units outstanding	157,858,731	82,233,294
Weighted average pro forma Common Units issued upon conversion of Series A Preferred Units	70,918,506	68,332,912
Weighted average pro forma Common Units issued upon conversion of Series B Preferred Units	79,520,500	_
Pro forma weighted average number of Common Units	308,297,737	150,566,206
Net loss per Unit, Basic and Diluted	\$ (0.12)	\$ (0.10)

(10) Convertible Preferred Units and Members' Equity

The Company's operating agreement, as amended and restated in August 2017 and then again in November 2017, permits the issuance of four classes of Units — Series A Preferred Units, Series B Preferred Units, Series B-1 Preferred Units and Common Units. Each member is entitled to one vote for each Unit held and the Units of all classes and series shall vote together as a single class on all matters (on an as converted to Common Unit basis).

The amended and restated operating agreement contains specific provisions for payments in respect of the Series A Preferred Units, the Series B Preferred Units and the Common Units for liquidating and non-liquidating distributions. There are also provisions for payments in respect of the Series A Preferred Units, Series B Preferred Units and Common Units when certain deemed liquidation events occur, which are a merger or consolidation of the Company or sale of all or substantially all of the assets of the Company.

Elimination of Series A Preferred Unit Distribution Preference and Common Unit Distribution Preference

On August 18, 2017, in exchange for the modification of certain liquidation preferences payable to the holders of the Series A Preferred Units, each holder of the Series A Preferred Units received Common Units based on a fraction where the numerator was the issue price for the Series A Preferred Units held and the denominator was 1.17. This resulted in the issuance of 46,943,104 Common Units at a total fair value of \$16,430,086 on August 18, 2017.

Similarly, on August 18, 2017, for the elimination of the entire preference amount of \$30,912,091 payable to the Common Investors, as defined in the original operating agreement, each such investor received Common Units based on the fraction, the numerator of which was the Common Preference Amount due each Common Investor and the denominator of which was 1.17. This resulted in the issuance of 26,422,070 Common Units at a total fair value of \$9,247,724 on August 18, 2017.

Series A Preferred Units

The Series A Preferred Units are entitled to a preference on distributions, ahead of the Common Units but behind Series B Preferred Units, in the amount of \$54,923,430 plus the Series A Preferred Return (as described below), as of December 31, 2017.

The Series A Preferred Units are entitled to a return in an annual non-compounded amount with respect to each outstanding Series A Preferred Unit equal to the product of the Series A Preferred Return Percentage and the Series A Unreturned Capital Value for each Unit, which shall accrue to the extent not paid. The Series A Preferred Return Percentage is 4% and may be reduced to 2% if certain requirements are met as outlined in the amended and restated operating agreement. Additionally, except upon an IPO or a liquidation event, the payment of the Series A Preferred Return is at the sole discretion of the Board of Managers. As of December 31, 2017 and December 31, 2016, the Series A Preferred Return in arrears aggregated to \$7,535,079 and \$5,338,142, respectively. Following the 2017 amendments to the operating agreement, the Series A Preferred Return payable upon a public offering of the Company's common stock was fixed at \$3,629,092 and is payable, at the Company's election, in cash or shares of the Company's common stock but is expected to be paid in common stock. This incremental value would be recorded as a distribution to Series A Preferred Unit holders in the event of a public offering of the Company's common stock.

The Series A Preferred Units are convertible into Common Units at the option of the holder, or mandatorily upon the occurrence of an initial public offering or other specified events into one Common Unit as outlined in amended and restated operating agreement. In addition, in connection with the Company's Operating Agreement the Company has the ability to reserve a sufficient number of Common Units to enable the conversion of all Series A Preferred Units.

The Series A Preferred Units also have other protective provisions that prohibit the Company from taking certain actions as outlined in the amended and restated operating agreement without the prior written consent of the holders of not less than 66% of the total outstanding Series A Preferred Units, which consent, subject to certain exceptions, must include the consent of Core Ventures II, LLC (CV II) and Merck Global Health Innovation Fund, LLC (Merck GHI).

The holders of the Series A Preferred Units, including CVII and Merck GHI purchased an aggregate amount of \$50,692,432 of Series A Preferred Units through December 31, 2016, at an initial closing and several required milestone closings, several optional milestone closings, as well as from the exercise of certain warrants, net of related issuance costs. No Series A Preferred Units were issued after December 31, 2016. The Series A Preferred Units were issued as follows:

			Price	Aggregate		T		
		ber of Series A	per	issuance		Fiscal year		
Closing date	Preferre	ed Units/warrants	unit	price	2013	2014	2015	2016
March 2013	20,400,669	Preferred Units	\$ 0.73527	\$ 15,000,000	\$ 15,000,000			
		Total, initial closing		\$ 15,000,000				
December 2013	4,533,482	Preferred Units	0.73527	\$ 3,333,334	3,333,334			
April 2014	9,066,964	Preferred Units	0.73527	6,666,666		\$ 6,666,666		
June 2014	6,800,222	Preferred Units	0.73527	5,000,000		5,000,000		
		Total, required milestone closing		\$ 15,000,000				
September 2014	5,882,353	Preferred Units	0.85	\$ 5,000,000		5,000,000		
January 2015	5,882,353	Preferred Units	0.85	5,000,000			\$ 5,000,000	
April 2015	5,882,353	Preferred Units	0.85	5,000,000			5,000,000	
November, 2015	2,552,941	Preferred Units	0.85	2,064,065			2,064,065	
March, 2016	2,000,000	Preferred Units	0.85	1,700,000				\$ 1,700,000
		Total, optional milestone closing		\$ 18,764,065	18,333,334	16,666,666	12,064,065	1,700,000
November, 2015	2,266,741	Exercise of warrants	0.73527				1,666,667	
March, 2016	2,266,741	Exercise of warrants	0.73527					1,666,667
		Issuance costs			(953,466)	(300,000)	(151,501)	
		Net proceeds			\$ 17,379,868	\$ 16,366,666	\$ 13,579,231	\$ 3,366,667

As of December 31, 2016 and December 31, 2017, there were outstanding (i) warrants to purchase 132,354 Series A Preferred Units issued in connection with the Company's venture debt financing (see Note 11), and (ii) warrants to purchase 89,412 Series A Preferred Units issued to one of the Company's financial advisors. All other warrants to purchase Series A Preferred Units have either been exercised or have expired and no new warrants to purchase Series A Preferred Units were issued in 2017.

Series B Preferred Units

In 2017, the Company entered into a Series B Preferred Unit Purchase Agreement with, among others, CV II, Merck GHI and AIH. Under the terms of the Purchase Agreement, as amended, through December 31, 2017, the Company received cash proceeds of \$46.9 million and converted \$26.7 million of Bridge Notes and related accrued and unpaid interest for an aggregate amount of \$73,630,210 (inclusive of amounts mentioned in Note 12 related to conversion of Bridge Notes and related accrued and unpaid interest) through the sale of Series B Preferred Units at an initial closing and several additional closings.

The Series B Preferred Units are entitled to a preference on distributions ahead of the Series A Preferred Units and the Common Units, in the amount of \$73,630,210 as of December, 31, 2017.

The Series B Preferred Units are convertible into Common Units at the option of the holder, or mandatorily upon the occurrence of an initial public offering or other specified event, into one common unit as outlined in the amended and restated operating agreement. In addition, in connection with the Company's Operating Agreement the Company has the ability to reserve a sufficient number of Common Units to enable the conversion of all Series B Preferred Units.

The Series B Preferred Units also have other protective provisions that prohibit the Company from taking certain actions as outlined in the amended and restated operating agreement without the prior written consent of the holders of not less than 66% of the total outstanding Series B Preferred Units, which consent, subject to certain exceptions, must include the consent of CV II, Merck GHI and American Investment Holdings LLC (AIH).

In connection with these Series B Preferred Unit closings, the Company also issued 18,340,000 common units to investors at a relative fair value of \$4,074,447.

In connection with all Series B Preferred Unit closings, the Company also issued warrants for the purchase of 35,452,084 Common Units at an exercise price of \$1.25 per Unit, which warrants expire on the earlier of 5 years from issuance and the closing of the Company's IPO. The Company also issued warrants to advisors for the purchase of 2,724,549 Common Units at an exercise price of \$0.70 per Unit and 72,000 common warrants at \$1.25 per Unit. The fair value of these warrants to purchase common units are recorded within additional-paid-in-capital.

At December 31, 2017, there were warrants to purchase (i) 7,739,092 Series B Preferred Units at \$0.70 per unit outstanding that were issued to purchasers of our Bridge Notes (see Note 12) and (ii) 1,820,134 Series B Preferred Units at \$0.70 per unit that were issued to our financial advisors.

(11) Term Loan

On December 22, 2015, the Company entered into a Loan and Security Agreement (the Bank Agreement) with Pacific Western Bank (Bank) pursuant to which the Company received a term loan of \$1,250,000. The Bank Agreement also provided for three additional term loans aggregating \$6,250,000, available at various dates through June 2017. In connection with the financing, the Bank received 66,177 warrants to purchase Series A Preferred Units at an exercise price of \$0.85 per Unit. These warrants expire on December 22, 2025.

One of the conditions related to the Bank Agreement required the Company to receive proceeds of not less than \$8,000,000 on or prior to April 30, 2016, from the issuance of Series A Preferred Units. Due to the Company's

failure to satisfy such requirement, the Bank delivered a Notice of Default and in May 2016, the Company repaid the \$1,250,000 term loan balance in full and the Bank Agreement was terminated.

On December 22, 2015, the Company also entered into a Loan and Security Agreement (CV II Agreement) with CV II pursuant to which the Company received a term loan from CV II of \$1,250,000 (CV II term loan). The CV II term loan was subordinated to the term loan received from the Bank. In connection with the financing, CV II received 66,177 warrants to purchase Series A Preferred Units at an exercise price of \$0.85 per Unit. These warrants expire on December 22, 2025.

Pursuant to the terms of the CV II Agreement, CV II opted to convert the term loan of \$1,250,000 and related accrued interest of \$49,935 into the Company's Series A Preferred Units in 2016, at a per Unit price of \$0.85 per Unit.

The fair value of the warrants issued to the Bank and CV II aggregated \$59,030. The Company also incurred issuance costs related to the financing of \$134,137. The fair value of the warrants and issuance costs attributable to the loan per the Bank Agreement aggregating \$96,584 were recognized under amortization of debt discount and issuance costs for the year ended December 31, 2016. The fair value of the warrants and issuance costs attributable to the proceeds received from the CV II term loan aggregating \$96,583 were recognized as a reduction from the amount allocated to Series A Preferred Units.

Interest on both the loans were payable at a variable annual rate of 7.30% plus LIBOR subject to a minimum of 7.5%.

As of December 31, 2017 and 2016, respectively, warrants to purchase 132,354, Series A Preferred Units issued in connection with the term loans remained outstanding.

(12) Convertible Bridge Notes

Beginning in June 2016, the Company commenced raising new capital under a Bridge Note and Warrant Purchase Agreement (the Bridge Financing). Under the original terms of the Bridge Financing, investors were issued a convertible promissory note (the Bridge Note) bearing annual interest at 10%, and a warrant to purchase the securities issued in the Company's next equity financing (the Next Round Securities) in an amount equal to 20% of the face amount of the Bridge Note (the Bridge Note Warrants). The face value and accrued interest under the Bridge Notes were originally automatically convertible into the Next Round Securities upon the Company's next bona fide equity financing round that raised not less than \$8 million (exclusive of the Bridge Notes) (Qualified Equity Round) at a 10% discount to the purchase price payable for such Next Round Securities (the Next Round Price). In addition, the Bridge Notes were also convertible into Series A Preferred Units at \$0.85 per Unit, at the option of the holders. In September 2016 the terms of the Bridge Financing were amended (September 2016 amendment) to provide that subsequent purchasers of Bridge Notes would also receive up to two Common Units for each one dollar of principal amount of Bridge Notes purchased. The Bridge Note Warrants are exercisable for a period of five years and entitle each holder to purchase the Next Round Securities in an amount equal to 20% of principal amount of the Bridge Notes purchased by each such investor divided by the Next Round Price, with an exercise price equal to the Next Round Price.

In 2016, the Company issued Bridge Notes aggregating \$7,121,130 (including \$5,060,025 purchased by CV II and \$1,500,000 purchased by ECNG, LLC (ECNG), an investor affiliated with CV II). In September 2016, ECNG elected to convert \$1,500,000 of its holdings in Bridge Notes, and accrued interest of \$26,096, into 1,795,407 Series A Preferred Units. The remaining Bridge Notes were outstanding as of December 31, 2016, with a maturity date of one year from the applicable original issuance dates.

In 2017, the Company issued Bridge Notes aggregating \$19,965,091. The terms of these Bridge Notes were the same as those issued in 2016.

Since the Bridge Note Warrants entitle the holders to purchase securities in the Qualified Equity Round at the purchase price payable for the related equity securities, the exercise price of the warrants was undetermined at the time of their issuance. Also, because the terms of redemption of the Series B Preferred Units were unknown at the time of their issuance as well as the deemed liquidation terms discussed in Note 10, the warrants are recorded as liabilities. In connection with the Bridge Note closings, at the time of the Qualified Equity Round, the Company issued 7,739,092 Bridge Note Warrants all of which are outstanding as of December 31, 2017.

Under ASC Topic 815, certain contractual terms that meet the accounting definition of a derivative must be accounted for separately from the financial instrument in which they are embedded. The Company has concluded that the right of the Bridge Note investors to convert the face value and accrued interest to Company's equity securities constitutes embedded derivatives.

For the Bridge Financing closing in 2016 the Company determined the amount attributable to the Common Units issued in 2016 in connection with the Bridge Notes at relative fair value at \$1,274,804 and the amounts attributable to Bridge Note Warrants and embedded derivatives related to Qualified Equity Financing at fair values at \$480,636 and \$358,146 respectively at December 31, 2016. The fair value for the embedded derivative related to the option to convert to Series A Preferred Units was deemed immaterial.

For the Bridge Financing closing in 2017, the Company determined the amount attributable to the Common Units issued in 2017 in connection with the Bridge Notes at relative fair value at \$4,241,180 and the amounts attributable to Bridge Note Warrants and embedded derivatives related to Qualified Equity Financing at fair values at \$2,149,100 and \$1,789,472 respectively. The fair value for the embedded derivative related to the option to convert to Series A Preferred Units was deemed immaterial.

As of December 31, 2016, the amount related to Common Units, Bridge Note Warrants and the embedded derivatives were recorded as a discount on the Bridge Notes and are being amortized over the maturity term of the respective Bridge Notes. At December 31, 2016, the unamortized discount on the Bridge Notes was \$1,758,361.

In connection with the Bridge Financing, the Company engaged two advisors (the Advisors) to serve as placement agents. The Advisors are entitled to a combined placement agent fee of 10% of the principal amount of the Bridge Notes sold to investors first introduced to the Company by the Advisors, five-year warrants to purchase securities in the Qualified Equity Round at the purchase price payable for the related equity securities (Advisor Warrants), and the right to purchase 9% of the number of securities issuable upon the conversion of the Bridge Notes issued to such investors. In addition, one of the Advisors is also entitled to receive one-half of a Common Unit for each one dollar of principal amount of Bridge Notes purchased by investors first introduced to the Company by such Advisor.

During the year ended December 31, 2017 and 2016, investors introduced by the Advisors purchased Bridge Notes with an aggregate principal amount of \$11,771,119 and \$561,105, respectively.

In 2017, with respect to such Bridge Notes and associated Common Units and Bridge Note Warrants, the Company incurred total costs of \$2,467,455 (inclusive of \$952,901 representing fair value of 5,095,218 common units and \$495,510 representing fair value of 1,692,431 Advisor Warrants, to be issued by the Company at the time of the Qualified Equity Round); \$1,791,422 of such amount was recognized as a discount on the Bridge Notes and will be amortized over the maturity term of the Bridge Notes. Based on the fair values of the financial instruments issued in connection with the Bridge Notes, the remaining amount was allocated as follows: \$409,735 to Common Units and \$266,297 to Bridge Note Warrants. The amount allocated to Common Units was netted against the related proceeds and the amount related to Bridge Note Warrants was expensed during the year ended December 31, 2017.

In 2016, with respect to such Bridge Notes and associated Common Units and Bridge Note Warrants, the Company incurred total costs of \$133,289 (inclusive of \$15,712 representing fair value of 72,142 Advisor

Warrants, to be issued by the Company at the time of the Qualified Equity Round); \$109,933 of such amount was recognized as a discount on the Bridge Notes and will be amortized over the maturity term of the Bridge Notes. Based on the fair values of the financial instruments issued in connection with the Bridge Notes, the remaining amount was allocated as follows: \$9,282 to Common Units and \$14,014 to Bridge Note Warrants. The amount allocated to Common Units was netted against the related proceeds and the amount related to Bridge Note Warrants was expensed during the year ended December 31, 2016.

As permitted by ASC Topic 470-10-45-14, Debt, as of December 31, 2016, the Bridge Notes have been classified as long-term liabilities. In connection with the initial closing under the Series B Preferred Unit Purchase Agreement entered into in August 2017, all outstanding Bridge Notes (aggregating \$25,586,220), together with all related accrued and unpaid interest aggregating \$1,132,690, were automatically converted into Series B Preferred Units, at \$0.70 per Unit. At this time all unamortized debt discount and discount related to debt issuance costs was derecognized and included in Net loss on settlement of convertible bridge notes.

(13) Unit-Based Compensation

In connection with employment and service provider agreements the Company has awarded grantees Units that constitute profits interests for income tax purposes, subject to certain restrictions defined in each Unit forfeiture agreement. The Company maintains a Unit award account for each of the grantees. Generally, the Units vest 25% on the one year anniversary of the employment start date or agreement date and the balance ratably per quarter thereafter over an additional three-year period. After the restrictions lapse, the grantees become fully vested in such Units.

The following summarizes activity related to the Company's unvested Unit awards for the year ended December 31, 2017 and 2016:

	Number of units	ed average te fair value
Outstanding Balance as of January 1, 2016	3,052,914	\$ 0.06
Granted	11,251,553	\$ 0.08
Vested	(845,449)	\$ 0.05
Forfeited	(1,934,170)	\$ 0.05
Outstanding Balance as of December 31, 2016	11,524,848	\$ 0.08
Granted	21,206,589	\$ 0.02
Vested	(10,095,715)	\$ 0.03
Outstanding Balance as of December 31, 2017	22,635,722	\$ 0.04

As of December 31, 2017 and 2016 there were \$933,398 and \$878,471, respectively, of total unrecognized compensation cost related to unvested Unit-based compensation awards respectively, which are expected to be recognized over a weighted average period of four years.

The Company utilizes the Black Scholes option pricing model for estimating the fair value of all Units granted. The fair value of each Unit is estimated on the date of the grant. The fair value is then amortized using graded-vesting over the requisite service period for each separately vesting portion of the award as if the award was, in-substance, multiple awards.

The weighted average assumptions for the Units granted during the years ended December 31, 2017 and 2016 are provided in the following table:

	2017	2016
Valuation assumptions:		
Expected dividend yield	0%	0%
Expected volatility	70.92%	79.10%
Expected term (years)	1.49	2.01
Risk-free interest rate	1.26%	0.64%

The risk-free interest rate is the average U.S. Treasury rate with a term that most closely resembles the expected life of the award for the year in which the award was granted. The expected life is the period of time that the awards granted are expected to remain outstanding. The expected life is calculated using a simplified method, as permitted by the accounting standards. Expected volatility is a measure of the amount by which the Unit price has fluctuated or is expected to fluctuate during a period. For volatility, the Company uses comparable public companies as a basis for its expected volatility. The Company does not pay regular dividends on its Units and does not anticipate paying any dividends in the foreseeable future.

For the years ended December 31, 2017 and 2016, Unit-based compensation expense is reported as a component of selling, general and administrative and research and development expense in the Company's Consolidated Statement of Operations.

(14) Variable Interest Entity

As discussed in note 1, electroCore is the primary beneficiary of electroCore (Aust) Pty Limited. electroCore has contributed certain intellectual property rights, all rights to distribute, market and sell specified products in Australia and New Zealand, and other rights outlined in the shareholders' deed of electroCore (Aust) Pty Limited in return for 50% of the shares of such entity. In addition, electroCore can also appoint two of the four directors and can exercise significant influence. This along with the fact that electroCore is electroCore (Aust) Pty Limited's only supplier causes electroCore, for accounting purposes, to be the primary beneficiary of electroCore (Aust) Pty Limited. The activities related to electroCore (Aust) Pty Limited are not material to the consolidated financial statements.

(15) Commitments and Contingencies

(a) Operating Lease

The Company leases office space under operating leases through April 2022. Future minimum lease payments under non-cancelable operating leases (with initial or remaining lease terms in excess of one year) as of December 31, 2017 are as follows:

\$ 552,524
564,939
577,353
545,472
195,437
\$2,435,725

For the years ended December 31, 2017 and 2016, rental expense related to the leases were \$493,067 and \$529,271, respectively.

(b) Legal Proceedings

The Company may from time to time be involved in various claims and legal actions arising in the ordinary course of its business. In the opinion of management, the ultimate disposition of any of these matters will not have a material adverse effect on the Company's consolidated financial position, results of operations, or liquidity.

(16) Employee Benefit Plan

The Company has a defined contribution 401(k) profit sharing plan which covers all employees. Employees are eligible upon date of hire. Employee contributions are voluntary and are based on specific percentages of compensation, which may not exceed maximum amounts established by Internal Revenue Code. Employer contributions are discretionary. There were no employer contributions for the years ended December 31, 2017 and 2016.

(17) Subsequent Events

The Company has evaluated subsequent events for the balance sheet date through March 30, 2018, the date at which the consolidated financial statements were available to be issued and determined that there are no other items to disclose, except as disclosed in note 1.

ELECTROCORE, LLC, SUBSIDIARIES AND AFFILIATE Consolidated Balance Sheets

	March 31, 2018 (Unaudited)	December 31, 2017
Assets	(Onaudited)	
Current assets:		
Cash and cash equivalents	\$ 1,520,466	\$ 13,224,194
Debt securities and other investments available for sale	25,186,020	23,950,566
Accounts receivable, net	255,862	103,209
Inventories	321,187	327,787
Prepaid expenses and other current assets	1,345,630	570,755
Deferred financing costs	2,308,475	856,895
Total current assets	30,937,640	39,033,406
Property and equipment—net	306,433	168,646
Security deposits	30,604	30,604
Total assets	\$ 31,274,677	\$ 39,232,656
Liabilities, Convertible Preferred Units and Members' Deficit		
Current liabilities:		
Accounts payable and accrued expenses	\$ 5,055,275	\$ 3,879,775
Warrant liability	2,485,398	2,239,544
Total current liabilities	7,540,673	6,119,319
Noncurrent liabilities:		
Deferred rent	293,124	306,886
Total liabilities	7,833,797	6,426,205
Commitments and contingencies (Note 16)		
Convertible Preferred Units:		
Series A Preferred Units, 71,050,860 Units authorized at March 31, 2018 and at December 31, 2017;		
70,918,506 Units issued and outstanding at March 31, 2018 and at December 31, 2017	53,518,463	53,518,463
Series B Preferred Units, 123,000,000 Units authorized at March 31, 2018 and at December 31, 2017;		
105,186,020 Units issued and outstanding at March 31, 2018 and at December 31, 2017	68,755,544	68,755,544
Series B-1 Preferred Units, 23,529,412 Units authorized at March 31, 2018 and at December 31, 2017; 0 Units		
issued and outstanding at March 31, 2018 and at December 31, 2017		
Total convertible preferred units	122,274,007	122,274,007
Members' deficit:		
Common Units, 600,000,000 Units authorized at March 31, 2018 and at December 31, 2017; 218,982,140		
Units issued and outstanding at March 31, 2018 and at December 31, 2017	40,180,619	40,180,619
Additional paid-in capital	22,863,630	22,596,485
Accumulated deficit	(162,427,468)	(152,928,928)
Accumulated other comprehensive (loss) income	(59,048)	80,213
Total deficit attributable to Electrocore, LLC, subsidiaries and affiliate	(99,442,267)	(90,071,611)
Noncontrolling interest	609,140	604,055
Total members' deficit	(98,833,127)	(89,467,556)
Total liabilities, convertible preferred units and members' deficit	\$ 31,274,677	\$ 39,232,656

See accompanying notes to consolidated financial statements.

ELECTROCORE, LLC, SUBSIDIARIES AND AFFILIATE Consolidated Statements of Operations (Unaudited)

		nded March 31,
Net sales	2018 \$ 81.187	\$ 116.933
Cost of goods sold	\$ 81,187 48,948	\$ 116,933 72,747
Gross profit	32,239	44,186
Operating expenses:	32,239	44,100
Research and development	2,306,335	1,726,557
Selling, general and administrative	6,824,814	3,059,261
Total operating expenses	9,131,149	4,785,818
Loss from operations	(9,098,910)	(4,741,632)
Other expense (income)	(5,050,510)	(1,7 11,002)
Interest expense	_	1,040,093
Amortization of debt issuance costs	_	269,162
Change in fair value of warrant liability	245,854	177,976
Change in fair value of derivative instrument related to convertible bridge notes	_	128,063
Interest and other income, net	(109,283)	_
Other	208,054	_
Net loss	(9,443,535)	(6,356,926)
Less: Net income attributable to noncontrolling interest	55,005	
Net loss attributable to Electrocore, LLC, subsidiaries and affiliate	\$ (9,498,540)	\$ (6,356,926)
Pro forma Net loss per Unit—Basic and Diluted (unaudited) (Note 11)	\$ (0.02)	\$ (0.04)
Pro forma Weighted average number of Common Units and potential Common Units outstanding—Basic and		
Diluted (unaudited) (Note 11)	395,086,660	166,790,093

See accompanying notes to consolidated financial statements.

ELECTROCORE, LLC, SUBSIDIARIES AND AFFILIATE Consolidated Statements of Comprehensive Loss (Unaudited)

	Three months ended March 31,	
	2018	2017
Net loss	\$(9,443,535)	\$ (6,356,926)
Other comprehensive (loss) income:		
Foreign currency translation adjustment	(114,329)	13,767
Unrealized loss on debt securities and other investments available for sale	(24,932)	
Other comprehensive (loss) income	(139,261)	13,767
Comprehensive loss	(9,582,796)	(6,343,159)
Less: Net comprehensive income attributable to noncontrolling interest	5,085	7,934
Net comprehensive loss attributable to Electrocore, LLC, subsidiaries and affiliates	\$(9,587,881)	\$ (6,351,093)

See accompanying notes to consolidated financial statements.

ELECTROCORE, LLC, SUBSIDIARIES AND AFFILIATE Consolidated Statements of Cash Flows (Unaudited)

	Three months en	
Cook flows from apprenting activities	2018	2017
Cash flows from operating activities: Net loss	\$ (9,443,535)	\$(6,356,926)
Adjustments to reconcile net loss to net cash used in operating activities:	\$ (9,445,333)	\$(0,330,920)
Amortization of debt discount and debt issuance costs		1,041,132
Change in fair value of warrants and embedded derivative	245,854	306,039
Unit-based compensation	267,145	59,806
Depreciation	7,212	6,629
Other	(68,468)	(12,023)
Changes in operating assets and liabilities:	(33,133)	(,)
Accounts receivable, net	(152,653)	(76,181)
Inventories	6,600	(99,005)
Prepaid expenses and other current assets	(774,874)	(36,743)
Accounts payable and accrued expenses	249,151	917,197
Deferred rent	(13,762)	(10,657)
Net cash used in operating activities	(9,677,330)	(4,260,732)
Cash flows from investing activities:		
Purchase of debt securities and other investments available for sale	(10,431,839)	_
Proceeds from maturities of debt securities and other investments available for sale	9,190,000	_
Purchases of property and equipment	(144,999)	(10,677)
Net cash used in investing activities	(1,386,838)	(10,677)
Cash flows from financing activities:		
Proceeds from issuance of convertible bridge notes	_	4,546,141
Financing costs related to the issuance of Convertible Bridge Notes	_	(377,297)
Deferred financing costs	(525,231)	
Net cash (used in) provided by financing activities	(525,231)	4,168,844
Effect of changes in exchange rates on cash and cash equivalents	(114,329)	45,341
Net decrease in cash and cash equivalents	(11,703,728)	(57,224)
Cash and cash equivalents—beginning of period	13,224,194	416,336
Cash and cash equivalents—end of period	\$ 1,520,466	\$ 359,112
Supplemental schedule of noncash financing activity:		<u> </u>
Series B warrants issued in connection with convertible bridge notes	\$ —	\$ 665,374
Debt issuance cost included in accounts payable	Ψ	126,645
Deferred financing costs in accounts payable and accrued expenses	926,349	
Common units issued in connection with convertible bridge notes		862,721

See accompanying notes to consolidated financial statements.

ELECTROCORE, LLC, SUBSIDIARIES AND AFFILIATE Notes to Consolidated Financial Statements (Unaudited)

(1) Business and Organization

Electrocore, LLC ("electroCore" or the "Company") is a bioelectronic medicine company, engaged in developing a range of patient-administered non-invasive Vagus Nerve Stimulation (nVNS) therapies initially focused on the treatment of multiple conditions in neurology, rheumatology and other fields. electroCore was founded in 2005 and its focus currently is on primary headache (migraine and cluster headache), with trials continuing in other neurological and inflammatory disorders.

electroCore, headquartered in New Jersey, has wholly owned subsidiaries which include: electroCore Bermuda, Ltd., electroCore Germany GmbH, and electroCore UK Ltd. In addition, an affiliate, electroCore (Aust) Pty Limited, is subject to electroCore's control on bases other than voting interests and is a variable interest entity (VIE), for which electroCore is the primary beneficiary.

In Europe, the Company has received CE Marks for its noninvasive neuro-stimulation therapy (gammaCore®) to treat primary headache, bronchoconstriction, epilepsy, gastric motility disorders, and depression and anxiety.

In January 2018, the U.S. Food and Drug Administration (FDA) released the use of gammaCore®, a non-invasive vagus nerve stimulator therapy for the treatment of pain associated with migraine headache in adult patients. Previously in April 2017 the FDA released the use of gammaCore® for the acute treatment of pain associated with episodic cluster headache in adult patients.

(2) Basis of Presentation

The accompanying unaudited consolidated financial statements were prepared in conformity with U.S. generally accepted accounting principles (U.S. GAAP) and with Article 10 of Regulation S-X for interim financial reporting. In compliance with those rules, certain information and footnote disclosures normally included in annual consolidated financial statements prepared in accordance with U.S. GAAP have been condensed or omitted. These consolidated financial statements should be read in conjunction with the Company's consolidated financial statements and related notes for the fiscal year ended December 31, 2017. In the opinion of management, all adjustments (consisting of normal recurring adjustments) considered necessary for a fair statement of the results of interim periods have been included. The results of operations and cash flows reported in these consolidated financial statements should not be regarded as necessarily indicative of results that may be expected for the entire fiscal year.

(3) Summary of Significant Accounting Policies

(a) Principles of Consolidation

The accompanying consolidated financial statements include the accounts of electroCore and its wholly owned subsidiaries. electroCore (Aust) Pty Limited, a VIE for which electroCore is the primary beneficiary, is also consolidated with the non-controlled equity presented as non-controlling interest. All intercompany balances and transactions have been eliminated in consolidation.

(b) Use of Estimates

The preparation of financial statements in conformity with U.S. generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Significant items subject to such estimates and assumptions include the useful lives of fixed assets; allowances for doubtful accounts and sales returns; valuation of inventory, warrants, Unit-based compensation, vouchers, and contingencies.

(c) Recently Adopted Accounting Pronouncements

In May 2014, the FASB issued Accounting Standard Update (ASU) 2014-09, Revenue from Contracts with Customers ("ASC 606"). ASC 606 provides a comprehensive framework under which revenue is recognized when an entity transfers promised goods and services to a customer in an amount that reflects the consideration an entity is entitled to receive in exchange for those goods and services. Furthermore, ASC 606 contains expanded disclosure requirements to enable users of the financial statements to better understand the nature, amount, timing, and uncertainty of revenue and cash flows arising from contracts with customers.

The Company adopted ASC 606 effective January 1, 2018, using the full retrospective method. The adoption of ASC 606 did not have a material impact on our consolidated balance sheet, statements of operations, or cash flows for the three months ended March 31, 2017. The primary impact of adoption related to the enhancement of our disclosures as provided in Note 5—Revenue Recognition.

In January 2016, the FASB issued ASU 2016-01, Recognition and Measurement of Financial Assets and Financial Liabilities (Subtopic 825-10). The ASU revises the measurement and presentation of investments in certain financial assets and liabilities and enhances disclosures about those investments. We adopted this guidance on January 1, 2018, which had no material impact on our consolidated balance sheet, statement of operations or cash flows.

In August 2016, the FASB issued ASU No. 2016-15, Statement of Cash Flows: Classification of Certain Cash Receipts and Cash Payments, (Topic 230). This ASU makes eight targeted changes to how cash receipts and cash payments are presented and classified in the statement of cash flows. We adopted this guidance on January 1, 2018, which had no material impact on our consolidated statement of cash flows.

(d) Recent Accounting Pronouncements

In February 2016, the FASB issued ASU No. 2016-02, Leases (Topic 842), which requires lessees to recognize most leases on the balance sheet. The provisions of this guidance are effective for annual periods beginning after December 15, 2018, and interim periods within those years, with early adoption permitted. The Company is assessing ASU No. 2016-02's impact and will adopt it when effective.

We reviewed all other recently issued accounting pronouncements and concluded that they were either not applicable or not expected to have a material impact on the consolidated financial statements.

(4) Significant Risks and Uncertainties

The Company's budgeted cash requirements for 2018 and beyond include expenses related to continuing development and clinical evaluation of its products and therapies, as well as preparing for related commercialization of our products. Based on the Company's available cash resources, cash flow projections as of the date the consolidated financial statements were available for issuance and reductions in third party consulting costs, it believes it has sufficient funds to continue only operations that are primarily related to current product commercialization efforts at least through June, 2019. Until the Company can generate significant cash from its operations, the Company expects to continue to fund its operations with its available financial resources. These financial resources may not be adequate to sustain its operations and the Company will be required to finance future cash needs through the sale of additional equity or debt securities. However, the Company cannot be certain that additional financing will be available when needed or that, if available, financing will be obtained on terms favorable to the Company or its Members. The capital markets have experienced volatility in recent years,

which has resulted in uncertainties with respect to availability of capital and hence the timing to meet an entity's liquidity needs. Having insufficient funds may require the Company to delay, scale-back or eliminate some or all of its programs or renegotiate less favorable terms than it would otherwise choose. Failure to obtain adequate financing also may adversely affect its ability to operate as a going concern.

In addition to the FDA release received by the Company for two indications (see Note 1), the Company is seeking approvals and clearances by the FDA for additional indications. In connection therewith, the Company will incur additional time and costs and will require additional funding to obtain such approvals and clearances. The additional time, costs, and funding is expected to be substantial.

The Company is highly dependent upon the technical and management skills of several of its officers.

The Company's potential growth may cause a significant strain on its management, operational, and financial resources. Its ability to manage its growth effectively will require it to continue to implement and improve its operational and financial systems. The Company's success also depends in large part on a limited number of current key technical, marketing, and sales employees and on the Company's ability to continue to attract and retain additional highly talented personnel.

The Company has foreign currency exchange risks related to revenue and operating expenses in currencies other than the local currencies in which they operate. The Company is exposed to currency risk from the potential changes in functional currency values of their foreign currency denominated assets, liabilities, and cash flows.

The Company deals primarily with one specialty pharmaceutical distributor in the United States. At March 31, 2018 and December 31, 2017, the accounts receivable related to this distributor was \$187,795 and \$31,740, respectively.

(5) Revenue Recognition

Performance Obligations

Revenue, net of specialty pharmaceutical distribution discounts, vouchers and co-payments assistance is solely generated from the sales of the gammaCore product. Sales are made to a specialty pharmaceutical distributor ("customer") and revenue is recognized when delivery of the product is completed. The Company deems control to have transferred upon the completion of delivery because that is the point in which (1) it has a present right to payment for the product, (2) it has transferred the physical possession of the product, (3) the customer has legal title to the product, (4) the customer has significant risks and rewards of ownership and (5) the customer has accepted the product. After the products have been delivered and control has transferred, the Company has no remaining unsatisfied performance obligations.

Revenue is measured based on the consideration that the Company expects to receive in exchange for gammaCore, which represents the transaction price. The transaction price includes the fixed per-unit price of the product and variable consideration in the form of trade credits, vouchers and copayment assistance. The per-unit price is based on the Company established wholesale acquisition cost less a contractually agreed upon distributor discount with the customer. Trade credits are discounts that are contingent upon a timely remittance of payment and is estimated based on historical experience. Vouchers are redeemable by select new patients for an initial 31-day therapy (i.e. one gammaCore device) free of charge. The Company initially estimated that 90% of the vouchers assigned to patients will be redeemed. The transaction price of the devices estimated to be redeemed through vouchers are recognized as contra-revenue. All other costs for units related to the voucher program and any other redemption costs due to the specialty pharmacy were included as promotional expenses in selling, general and administrative expense. For the three months ended March 31, 2018 contrarevenue and promotional expenses related to the vouchers redeemed and estimated to be redeemed were \$323,665 and \$76,516, respectively. In addition, reimbursement for co-payments made by patients is also considered variable consideration. Net sales reflect a reduction of \$29,207 for payments made in conjunction with the program.

In accordance with Company policy, no allowance for product returns has been provided. Damaged or defective products are replaced at no charge under the Company's standard warranty. For the three months ended March 31, 2018 and 2017, the replacement costs were immaterial.

Payment for products is due in accordance with the terms agreed upon with customers, generally within 31 days of shipment to the customer. Accordingly, our contracts with customers do not include a significant financing component.

Disaggregation of Net Sales

The following table provides additional information pertaining to our net sales disaggregated by geographic market for the three months ended March 31, 2018 and 2017:

		e months ended rch 31,
	2018	2017
Geographic Market		
United States	\$ 9,606	\$ 2,215
United Kingdom	64,982	64,956
Germany	805	44,423
Other	5,794	5,339
Total Net Sales	\$ 81,187	\$ 116,933

Contract Balances

The Company generally invoices the customer and recognizes revenue once its performance obligations are satisfied, at which point payment is unconditional. Accordingly under ASC 606, the contracts do not give rise to contract assets or liabilities.

(6) Cash, Cash Equivalents and Debt Securities and other Investments Available for Sale

The following tables summarizes the Company's cash, cash equivalents and debt securities and other investments available for sale as of March 31, 2018 and December 31, 2017.

		As of Mar	ch 31, 2018	
	Amortized Cost	Unrealized Gain	Unrealized (Loss)	Fair Value
Cash and cash equivalents	\$ 1,520,466	\$ —	\$ —	\$ 1,520,466
Corporate Debt Securities	\$15,060,602	\$	\$ (24,604)	\$15,035,998
Commercial Paper	5,945,402	_	(14,637)	5,930,765
U.S. Government Sponsored Agencies	2,990,460	_	(5,301)	2,985,159
U.S. Treasury Bonds	994,789	_	(689)	994,100
Certificate of Deposits	240,000	_	(2)	239,998
Total debt securities and other investments available for sale	\$25,231,253	\$ —	\$ (45,233)	\$25,186,020
Total cash, cash equivalents and debt securities and other investments available				
for sale	\$26,751,719	<u> </u>	\$ (45,233)	\$26,706,486

Maturities of debt securities and certificate of deposits classified as available-for-sale were as follows at March 31, 2018:

	Fair Value
Due within one year	\$ 25,186,020
Due after one year through five years	
	\$ 25,186,020

	As of	December 31, 2017	
Amortized Cost		ed Unrealized (Loss)	Fair Value
\$13,224,280	\$ —	- \$ (86)	\$13,224,194
\$19,014,590	\$ 92	23 \$(17,827)	\$18,997,686
2,979,367	_	- (1,227)	2,978,140
1,496,824	_	- (2,029)	1,494,795
480,000	_	- (55)	479,945
\$23,970,781	\$ 92	\$(21,138)	\$23,950,566
\$37,195,061	\$ 92	<u>\$(21,224)</u>	\$37,174,760
	\$13,224,280 \$19,014,590 2,979,367 1,496,824 480,000 \$23,970,781	Amortized Cost Unrealize Gain \$13,224,280 \$ — \$19,014,590 \$ 92 2,979,367 — 1,496,824 — 480,000 — \$23,970,781 \$ 92	Cost Gain (Loss) \$13,224,280 \$ — \$ (86) \$19,014,590 \$ 923 \$ (17,827) 2,979,367 — (1,227) 1,496,824 — (2,029) 480,000 — (55) \$23,970,781 \$ 923 \$ (21,138)

Maturities of debt securities and certificate of deposits classified as available-for-sale were as follows at December 31, 2017:

	Fair Value
Due within one year	\$ 23,950,566
Due after one year through five years	
	\$ 23,950,566

(7) Fair Value Measurements

Certain assets and liabilities are reported on a recurring basis at fair value. Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. Financial assets and liabilities carried at fair value are to be classified and disclosed in one of the following three levels of the fair value hierarchy, of which the first two are considered observable and the last is considered unobservable:

- Level 1—Quoted prices in active markets for identical assets or liabilities.
- Level 2—Observable inputs (other than Level 1 quoted prices), such as quoted prices in active markets for similar assets or liabilities, quoted prices in markets that are not active for identical or similar assets or liabilities, or other inputs that are observable or can be corroborated by observable market data.
- Level 3—Unobservable inputs that are supported by little or no market activity and that are significant to determining the fair value of the assets or liabilities, including pricing models, discounted cash flow methodologies and similar techniques.

A summary of the assets and liabilities carried at fair value in accordance with the hierarchy defined above is as follows:

			ir Value Hierarchy	
	Total	Quoted Prices in active markets for identical instruments (Level 1)	Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
March 31, 2018				
Assets				
Cash and cash equivalents	\$ 1,520,466	\$ 1,520,466	\$ —	\$ —
Debt Securities and other Investments Available for Sale:				
Corporate Debt Securities	15,035,998	15,035,998	_	_
Commercial Paper	5,930,765	5,930,765	_	
U.S. Government Sponsored Agencies	2,985,159	2,985,159	_	_
U.S. Treasury Bonds	994,100	994,100	_	
Certificate of Deposits	239,998	239,998		
Total	\$26,706,486	\$26,706,486	<u>\$</u>	<u> </u>
Liabilities				
Warrant liabilities	\$ 2,485,398	\$ —	\$ —	\$2,485,398
waitan naomites	Ψ 2,405,550	Ψ	Ψ	Ψ2,405,550
warrant natinues	ψ 2, 4 03,330		ir Value Hierarchy	Ψ2,405,550
wallall liabilities	Total	Quoted Prices in active markets for identical instruments	nir Value Hierarchy Significant other observable inputs	Significant unobservable inputs
December 31, 2017		Fa Quoted Prices in active markets for identical	nir Value Hierarchy Significant other observable	Significant unobservable
		Quoted Prices in active markets for identical instruments	nir Value Hierarchy Significant other observable inputs	Significant unobservable inputs
December 31, 2017		Quoted Prices in active markets for identical instruments	nir Value Hierarchy Significant other observable inputs	Significant unobservable inputs
December 31, 2017 Assets	<u>Total</u>	Quoted Prices in active markets for identical instruments (Level 1)	sir Value Hierarchy Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
December 31, 2017 Assets Cash and cash equivalents Debt Securities and other Investments Available for Sale: Corporate Debt Securities	<u>Total</u>	Quoted Prices in active markets for identical instruments (Level 1)	sir Value Hierarchy Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
December 31, 2017 Assets Cash and cash equivalents Debt Securities and other Investments Available for Sale:	Total \$13,224,194	Quoted Prices in active markets for identical instruments (Level 1)	sir Value Hierarchy Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
December 31, 2017 Assets Cash and cash equivalents Debt Securities and other Investments Available for Sale: Corporate Debt Securities Commercial Paper U.S. Government Sponsored Agencies	Total \$13,224,194 18,997,686	Quoted Prices in active markets for identical instruments (Level 1) \$13,224,194	sir Value Hierarchy Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
December 31, 2017 Assets Cash and cash equivalents Debt Securities and other Investments Available for Sale: Corporate Debt Securities Commercial Paper	Total \$13,224,194 18,997,686 2,978,140	Quoted Prices in active markets for identical instruments (Level 1) \$13,224,194 18,997,686 2,978,140	sir Value Hierarchy Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
December 31, 2017 Assets Cash and cash equivalents Debt Securities and other Investments Available for Sale: Corporate Debt Securities Commercial Paper U.S. Government Sponsored Agencies	Total \$13,224,194 18,997,686 2,978,140 1,494,795	Quoted Prices in active markets for identical instruments (Level 1) \$13,224,194 18,997,686 2,978,140 1,494,795	sir Value Hierarchy Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
December 31, 2017 Assets Cash and cash equivalents Debt Securities and other Investments Available for Sale: Corporate Debt Securities Commercial Paper U.S. Government Sponsored Agencies Certificate of Deposits	\$13,224,194 \$13,997,686 2,978,140 1,494,795 479,945	Quoted Prices in active markets for identical instruments (Level 1) \$13,224,194 18,997,686 2,978,140 1,494,795 479,945	Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3) \$

During the periods ended March 31, 2018 and December 31, 2017, the Company has not changed the manner in which it values assets and liabilities that are measured at fair value using Level 3 inputs. The Company recognizes transfers between levels of the fair value hierarchy as of the end of the reporting period. There were no transfers within the hierarchy during the three months ended March 31, 2018 and 2017.

Cash and cash equivalents consisted of cash in bank checking and savings accounts, money market funds and U.S. treasury notes and are classified within Level 1 of the fair value hierarchy because they are valued using quoted market prices in active markets.

Marketable securities classified as debt securities available for sale consist of investments in corporate debt securities, commercial paper, U.S. government sponsored agencies and certificate of deposits. The Company's marketable securities are valued using quoted prices in active markets and therefore these securities were classified as Level 1.

The warrant liability was recorded at fair value determined by using the probability weighted expected return method and option pricing models. This method of valuation involves using inputs such as the fair value of the Company's Common Units, unit price volatility, the contractual term of the warrant, risk free interest rates and dividend yields. Due to the nature of these inputs, the valuation of the warrant liability was considered a Level 3 measurement.

As of March 31, 2018 and December 31, 2017, the estimated fair values of the warrant liability were computed using the following assumptions:

	March 31, 	December 31, 2017
Stock price volatility	60.1%	65.3%
Risk-free interest rates	1.82%	1.59%
Annual dividend yield	0%	0%
Expected life (years)	0.41	0.65

This discounted cash flow method of valuation involves using inputs such as (1) a 50% required rate of return, (2) 80% probability of a qualified financing round closing prior to the maturity of the convertible Bridge Notes, and (3) the option's ability to convert at a 10% discount into the expected next qualified financing round. Due to the nature of these inputs, the valuation of the derivative instrument was considered a Level 3 measurement.

The significant unobservable inputs used in the fair value measurement of the Company's Series B warrants as of March 31, 2018 were a 28% weighted average cost of capital and a Series A dividend yield of 4%, and expected holding periods, volatility factors and risk-free interest rates for each respective exit scenario, including an IPO, strategic exit and second attempt at an IPO if the initial IPO is unsuccessful. A significant increase in the volatility factor, risk-free interest rate, Series B dividend yield or expected holding periods excluding the IPO in isolation could result in a significant increase in the discount rate, Series A dividend yield or expected holding period for the IPO in insolation could result in a significantly lower value for the Series B warrants.

A roll-forward of the recurring fair value measurements of the liabilities categorized with Level 3 inputs are as follows:

	Warrant liabilities
Opening Balance as of January 1, 2017	\$ 480,636
Additions	2,620,681
Settlements	_
Changes in fair value recognized	(861,773)
Closing Balance as of December 31, 2017	2,239,544
Additions	_
Settlements	_
Changes in fair value recognized	245,854
Closing Balance as of March 31, 2018	\$2,485,398

During the three months ended March 31, 2018, the warrant liability increased due to the change in fair value of the warrants.

(8) Inventories

Inventories as of March 31, 2018 and December 31, 2017 consisted of the following:

	March 31, 2018	December 31, 2017
Raw materials	\$ 93,826	\$ 116,909
Work in process	100,241	17,115
Finished goods	127,120	193,763
	\$321,187	\$ 327,787

(9) Property and Equipment—Net

Property and equipment, net as of March 31, 2018 and December 31, 2017 consisted of the following:

	March 31, 2018	December 31, 2017
Machinery and equipment	\$ 481,865	\$ 452,614
Furniture and fixture	156,512	156,512
Computer equipment	112,587	138,534
Construction in process	115,749	
Property, plant and equipment – gross	866,713	747,660
Less accumulated depreciation and amortization	(560,280)	(579,014)
Property, plant and equipment – net	\$ 306,433	\$ 168,646

Depreciation and amortization expense for the three months ended March 31, 2018 and March 31, 2017 were \$7,212 and \$6,629, respectively.

(10) Accounts Payable and Accrued Expenses

Accounts payable and accrued expenses as of March 31, 2018 and December 31, 2017 consisted of the following:

	March 31, 2018	December 31, 2017
Accounts payable	\$ 2,232,133	\$ 840,383
Accrued professional fees	1,952,596	2,288,020
Due to employees	503,336	659,333
Other accrued expenses	367,210	92,039
	\$ 5,055,275	\$ 3,879,775

(11) Pro Forma Net Loss Per Unit

Basic and diluted net loss per unit for the three months ended March 31, 2018 and 2017, gives effect to the assumed automatic conversion of all the outstanding Series A Preferred Units and Series B Preferred Units into Common Units on a one-for-one basis in connection with the initial public offering (IPO) by the Company. In connection with the automatic conversion, the Series A Preferred Units will convert into 70,918,506 shares of the Company's Common Units on a conversion ratio of 1:1 and the Series B Preferred Units will convert into 105,186,020 of the Company's Common Units on a conversion ratio of 1:1.

In addition, Net loss per Unit gives effect to income tax adjustments as if the Company was a taxable entity as of the beginning of the period. Prior to consummation of an IPO, the Company will convert into a C-corporation and will be subject to Federal and state income taxes.

The Company has reported a net loss for the three months ended March 31, 2018 and 2017. Based on the Company's history of generating operating losses and its anticipation of operating losses continuing in the foreseeable future, the Company has determined that it would not have been more likely than not that the tax benefits from these net operating losses would be realized and a full valuation allowance against all deferred tax assets would be recorded on a pro forma basis. Therefore, for the purposes of the pro forma tax provision, income tax expense is determined to be zero.

The Company has excluded all common equivalent shares outstanding for Profits Interests, warrants and convertible instruments from the calculation of diluted net loss per share because all such securities are antidilutive.

The following table summarizes the computation of pro forma basic and diluted net loss per unit attributable to common stockholders for the three months ended March 31, 2018 and 2017.

	For the three months ended March 31,	
	2018	2017
Numerator—Basic and Diluted		
Loss from operations before income taxes	\$ (9,498,540)	\$ (6,356,926)
Pro forma provisions/(benefit) for income taxes		
Pro forma net loss	\$ (9,498,540)	\$ (6,356,926)
Denominator—Basic and Diluted		
Weighted average pro forma Common Units outstanding	218,982,140	95,871,587
Weighted average pro forma Common Units issued upon conversion of Series A Preferred Units	70,918,506	70,918,506
Weighted average pro forma Common Units issued upon conversion of Series B Preferred Units	105,186,014	
Pro forma weighted average number of Common Units	395,086,660	166,790,093
Net loss per Unit, Basic and Diluted	\$ (0.02)	\$ (0.04)

(12) Convertible Preferred Units and Members' Equity

The Company's operating agreement, as amended and restated in August 2017 and then again in November 2017, permits the issuance of four classes of Units—Series A Preferred Units, Series B Preferred Units, Series B-1 Preferred Units and Common Units. Each member is entitled to one vote for each Unit held and the Units of all classes and series shall vote together as a single class on all matters (on an as converted to Common Unit basis).

The amended and restated operating agreement contains specific provisions for payments in respect of the Series A Preferred Units, the Series B Preferred Units and the Common Units for liquidating and non-liquidating distributions. There are also provisions for payments in respect of the Series A Preferred Units, Series B Preferred Units and Common Units when certain deemed liquidation events occur, which are a merger or consolidation of the Company or sale of all or substantially all of the assets of the Company.

Series A Preferred Units

The Series A Preferred Units are entitled to a preference on distributions, ahead of the Common Units but behind Series B Preferred Units, in the amount of \$54,923,430 plus the Series A Preferred Return (as described below), as of March 31, 2018.

The Series A Preferred Units are entitled to a return in an annual non-compounded amount with respect to each outstanding Series A Preferred Unit equal to the product of the Series A Preferred Return Percentage and the

Series A Unreturned Capital Value for each Unit, which shall accrue to the extent not paid. The Series A Preferred Return Percentage is 4% and may be reduced to 2% if certain requirements are met as outlined in the amended and restated operating agreement. Additionally, except upon an IPO or a liquidation event, the payment of the Series A Preferred Return is at the sole discretion of the Board of Managers. As of March 31, 2018, the Series A Preferred Return in arrears aggregated to \$8,076,789. Following the 2017 amendments to the operating agreement, the Series A Preferred Return payable upon a public offering of the Company's common stock was fixed at \$3,629,092 and is payable, at the Company's election, in cash or shares of the Company's common stock but is expected to be paid in common stock.

The Series A Preferred Units are convertible into Common Units at the option of the holder, or mandatorily upon the occurrence of an initial public offering or other specified events into one Common Unit as outlined in amended and restated operating agreement. In addition, in connection with the Company's Operating Agreement the Company has the ability to reserve a sufficient number of Common Units to enable the conversion of all Series A Preferred Units.

The Series A Preferred Units also have other protective provisions that prohibit the Company from taking certain actions as outlined in the amended and restated operating agreement without the prior written consent of the holders of not less than 66% of the total outstanding Series A Preferred Units, which consent, subject to certain exceptions, must include the consent of Core Ventures II, LLC (CV II) and Merck Global Health Innovation Fund, LLC (Merck GHI).

The Series A Preferred Units also have other protective provisions that prohibit the Company from taking certain actions as outlined in the amended and restated operating agreement without the prior written consent of the holders of not less than 66% of the total outstanding Series A Preferred Units, which consent, subject to certain exceptions, must include the consent of Core Ventures II, LLC (CBII) and Merck Global Health Innovation Fund, LLC (Merck GHL).

As of March 31, 2018, warrants issued in connection with Series A Preferred Units financing rounds have either been exercised or have expired and no new warrants related to Series A Preferred Units were issued in 2018.

As of March 31, 2018, warrants to purchase 132,354 Series A Preferred Units issued in connection with the term loans remain outstanding.

Series B Preferred Units

In 2017, the Company entered into a Series B Preferred Unit Purchase Agreement with, among others, CV II, Merck GHI and AIH. Under the terms of the Purchase Agreement, as amended, through December 31, 2017, the Company received cash proceeds of \$46,911,300 and converted \$26,718,910 of Bridge Notes and related accrued and unpaid interest for an aggregate amount of \$73,630,210 (inclusive of amounts mentioned in Note 13 related to conversion of Bridge Notes and related accrued and unpaid interest) through the sale of Series B Preferred Units at an initial closing and several additional closings.

The Series B Preferred Units are entitled to a preference on distributions ahead of the Series A Preferred Units and the Common Units, in the amount of \$73,630,210 as of March 31, 2018 and December 31, 2017.

The Series B Preferred Units are convertible into Common Units at the option of the holder, or mandatorily upon the occurrence of an initial public offering or other specified event, into one common unit as outlined in the amended and restated operating agreement. In addition, in connection with the Company's Operating Agreement the Company has the ability to reserve a sufficient number of Common Units to enable the conversion of all Series B Preferred Units.

The Series B Preferred Units also have other protective provisions that prohibit the Company from taking certain actions as outlined in the amended and restated operating agreement without the prior written consent of the

holders of not less than 66% of the total outstanding Series B Preferred Units, which consent, subject to certain exceptions, must include the consent of CV II, Merck GHI and American Investment Holdings LLC (AIH).

In connection with these Series B Preferred Unit closings, the Company also issued 18,340,000 common units to investors at a relative fair value of \$4,074,447.

In connection with all Series B Preferred Unit closings, the Company also issued warrants for the purchase of 35,452,084 Common Units at an exercise price of \$1.25 per Unit, which warrants expire on the earlier of 5 years from issuance and the closing of the Company's IPO. The Company also issued warrants to advisors for the purchase of 2,724,549 Common Units at an exercise price of \$0.70 per Unit and 72,000 common warrants at \$1.25 per Unit. The fair value of these warrants to purchase common units are recorded within additional-paid-in-capital.

As of March 31, 2018 and December 31, 2017, there were warrants to purchase (i) 7,739,092 Series B Preferred Units at \$0.70 per unit outstanding that were issued to purchasers of our Bridge Notes (see Note 13) and (ii) 1,820,134 Series B Preferred Units at \$0.70 per unit that were issued to our financial advisors.

(13) Convertible Bridge Notes

For the three months ended March 31, 2017, the Company issued Bridge Notes aggregating \$4,545,141 including warrant coverage.

Since the Bridge Note Warrants entitle the holders to purchase securities in the Qualified Equity Round at the purchase price payable for the related equity securities, the exercise price of the warrants was undetermined at the time of their issuance. Also, because the terms of redemption of the Series B Preferred Units were unknown at the time of their issuance as well as the deemed liquidation terms discussed in Note 12, the warrants are recorded as liabilities. In connection with the Bridge Note closings, at the time of the Qualified Equity Round, the Company issued 7,739,092 Bridge Note Warrants all of which are outstanding as of March 31, 2018.

As of December 31, 2017, all Bridge Notes were converted to Series B Preferred Units.

(14) Unit-Based Compensation

In connection with employment and service provider agreements the Company has awarded grantees Units that constitute profits interests for income tax purposes, subject to certain restrictions defined in each Unit forfeiture agreement. The Company maintains a Unit award account for each of the grantees. Generally, the Units vest 25% on the one year anniversary of the employment start date or agreement date and the balance ratably per quarter thereafter over an additional three-year period. After the restrictions lapse, the grantees become fully vested in such Units.

The following summarizes activity related to the Company's unvested Unit awards for the period ended March 31, 2018:

	Number of units	ed average te fair value
Outstanding Balance as of January 1, 2018	22,635,723	\$ 0.04
Granted	19,112,218	\$ 0.14
Vested	(3,328,229)	\$ 0.08
Forfeited	(83,479)	\$ 0.08
Outstanding Balance as of March 31, 2018	38,336,233	\$ 0.08

As of March 31, 2018 there were \$3,325,777 of total unrecognized compensation cost related to unvested Unit-based compensation awards respectively, which are expected to be recognized over a weighted average period of four years.

The Company utilizes the Black Scholes option pricing model for estimating the fair value of all Units granted. The fair value of each Unit is estimated on the date of the grant. The fair value is then amortized using graded-vesting over the requisite service period for each separately vesting portion of the award as if the award was, in-substance, multiple awards.

The weighted average assumptions for the Units granted during the three months ended March 31, 2018 and 2017 are provided in the following table:

	For the three months ended March 31,	
	2018	2017
Valuation assumptions:		
Expected dividend yield	0%	0%
Expected volatility	65.34%	82.60%
Expected term (years)	0.65	2.29
Risk-free interest rate	1.53%	0.77%

The risk-free interest rate is the average U.S. Treasury rate with a term that most closely resembles the expected life of the award for the year in which the award was granted. The expected life is the period of time that the awards granted are expected to remain outstanding, which takes into account potential future liquidity events. Expected volatility is a measure of the amount by which the Unit price has fluctuated or is expected to fluctuate during a period. For volatility, the Company uses comparable public companies as a basis for its expected volatility. The Company does not pay regular dividends on its Units and does not anticipate paying any dividends in the foreseeable future.

For the three months ended March 31, 2018 and 2017, Unit-based compensation expense is reported as a component of selling, general and administrative and research and development expense in the Company's consolidated statement of operations.

(15) Variable Interest Entity

As discussed in note 1, electroCore is the primary beneficiary of electroCore (Aust) Pty Limited. electroCore has contributed certain intellectual property rights, all rights to distribute, market and sell specified products in Australia and New Zealand, and other rights outlined in the shareholders' deed of electroCore (Aust) Pty Limited in return for 50% of the shares of such entity. In addition, electroCore can also appoint two of the four directors and can exercise significant influence. This along with the fact that electroCore is electroCore (Aust) Pty Limited's only supplier causes electroCore, for accounting purposes, to be the primary beneficiary of electroCore (Aust) Pty Limited. The activities related to electroCore (Aust) Pty Limited are not material to the consolidated financial statements.

(16) Commitments and Contingencies

(a) Operating Lease

The Company leases office space under operating leases through April 2022. For the three months ended March 31, 2018 and 2017, rental expense related to the leases for each period was \$122,818.

(b) Legal Proceedings

The Company may from time to time be involved in various claims and legal actions arising in the ordinary course of its business. In the opinion of management, the ultimate disposition of any of these matters will not have a material adverse effect on the Company's consolidated financial position, results of operations, or liquidity.

(17) Subsequent Events

In May 2018, a former financial advisor to the company filed a complaint against the Company seeking additional compensation in connection with the Company's 2017 Series B Preferred Unit financing (see note 12). The Company believes that it has substantial legal and factual defenses to the claims in such lawsuit and intends to vigorously defend the case. Based on our best estimate of this matter, we have established a legal reserve relative to this matter. The Company does not believe resolution of this matter would have a material adverse effect on its financial position or operations.

Through and including , 2018 (the 25th day after the date of this prospectus), all dealers effecting transactions in these securities, whether or not participating in this offering, may be required to deliver a prospectus. This delivery requirement is in addition to a dealer's obligation to deliver a prospectus when acting as an underwriter and with respect to an unsold allotment or subscription.

4,333,333 Shares



Common Stock

PROSPECTUS

Joint Bookrunners:

Evercore ISI

Cantor

JMP Securities

Lead Manager:

BTIG

, 2018

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13. Other Expenses of Issuance and Distribution.

The following table sets forth the costs and expenses, other than the underwriting discounts and commissions, payable by the registrant in connection with the sale of common stock being registered. All amounts are estimates except for the Securities and Exchange Commission, or SEC, registration fee, the FINRA filing fee and The Nasdaq Global Select Market listing fee.

Item		Amount to be paid
SEC registration fee	\$	9,926.80
FINRA filing fee	\$	11,712.50
The Nasdaq Global Select Market Listing fee	\$	125,000
Printing and engraving expenses	\$	400,000
Legal fees and expenses	\$	2,000,000
Accounting fees and expenses	\$	750,000
Transfer Agent fees and expenses		10,000
Miscellaneous expenses	\$	643,360
Total	\$	3,950,000.00

Item 14. Indemnification of Directors and Officers.

Prior to the closing of this offering, Electrocore, LLC intends to convert into a Delaware corporation pursuant to a statutory conversion and change its name to electroCore, Inc. As permitted by Section 102 of the Delaware General Corporation Law, our certificate of incorporation and bylaws to be effective upon the corporate conversion will contain provisions that limit or eliminate the personal liability of our directors for a breach of their fiduciary duty of care as a director. The duty of care generally requires that, when acting on behalf of the corporation, directors exercise an informed business judgment based on all material information reasonably available to them. Consequently, a director will not be personally liable to us or our stockholders for monetary damages for breach of fiduciary duty as a director, except for liability for:

- any breach of the director's duty of loyalty to us or our stockholders;
- any act or omission not in good faith or that involves intentional misconduct or a knowing violation of law;
- any act related to unlawful stock repurchases, redemptions or other distributions or payment of dividends; or
- · any transaction from which the director derived an improper personal benefit.

These limitations of liability do not affect the availability of equitable remedies such as injunctive relief or rescission. Our certificate of incorporation will also authorize us to indemnify our officers, directors and other agents to the fullest extent permitted under Delaware law.

As permitted by Section 145 of the Delaware General Corporation Law, our bylaws will provide that:

- we may indemnify our directors, officers, and employees to the fullest extent permitted by the Delaware General Corporation Law, subject to limited exceptions;
- we may advance expenses to our directors, officers and employees in connection with a legal proceeding to the fullest extent permitted by the Delaware General Corporation Law, subject to limited exceptions; and
- the rights provided in our bylaws are not exclusive.

Our certificate of incorporation to be in effect upon the corporate conversion, attached as Exhibit 3.1 hereto, and our bylaws to be in effect upon the corporate conversion, attached as Exhibit 3.2 hereto, provide for the indemnification provisions described above and elsewhere herein. We intend to enter into separate indemnification agreements with our directors and officers which may be broader than the specific indemnification provisions contained in the Delaware General Corporation Law. These indemnification agreements will generally require us, among other things, to indemnify our officers and directors against liabilities that may arise by reason of their status or service as directors or officers, other than liabilities arising from willful misconduct. These indemnification agreements will also generally require us to advance any expenses incurred by the directors or officers as a result of any proceeding against them as to which they could be indemnified. In addition, we have purchased a policy of directors' and officers' liability insurance that insures our directors and officers against the cost of defense, settlement or payment of a judgment in some circumstances. These indemnification provisions and the indemnification agreements may be sufficiently broad to permit indemnification of our officers and directors for liabilities, including reimbursement of expenses incurred, arising under the Securities Act of 1933, as amended, or the Securities Act.

The form of Underwriting Agreement, attached as Exhibit 1.1 hereto, provides for indemnification by the underwriters of us and our officers who sign this Registration Statement and directors for specified liabilities, including matters arising under the Securities Act.

Item 15. Recent Sales of Unregistered Securities.

The following sets forth information regarding all unregistered securities sold by us since January 1, 2015 through the date of the prospectus that forms a part of this registration statement.

- From January 2015 through March 2016, we issued Series A Preferred Units for aggregate consideration of \$13.8 million. In connection with such transactions, we issued 16.3 million Series A Preferred Units.
- In November 2015, we issued 2.3 million Series A Preferred Units to existing investors at a purchase price of approximately \$0.74 per unit, for aggregate consideration of approximately \$1.7 million, in connection with the exercise of warrants to purchase our Series A Preferred Units.
- In December 2015, we issued 66,177 warrants to purchase Series A Preferred Units to Core Ventures II, LLC, in connection a Loan and Security Agreement, pursuant to which we borrowed \$1.25 million.
- In December 2015, we issued 66,177 warrants to purchase Series A Preferred Units to Pacific Western Bank, in connection with a Loan and Security Agreement, pursuant to which we borrowed \$1.25 million.
- In March 2016, we issued 2.3 million Series A Preferred Units at a purchase price of approximately \$0.74 per unit, for aggregate
 consideration of approximately \$1.7 million, in connection with the exercise of warrants to purchase Series A Preferred Units.
- From June 2016 through August 2016, we issued convertible promissory notes of \$1.5 million. We issued 1.8 million Series A Preferred Units when such notes converted in September 2016.
- In September 2016, we issued 1.5 million Series A Preferred Units upon conversion of \$1.3 million of a term loan by Core Ventures II, LLC.
- From September 2016 through June 2017, we issued Series B convertible promissory notes for aggregate consideration of \$25.6 million. In connection with such transactions, we issued to such investors an aggregate of 41.9 million Common Units and warrants to purchase 7.31 million Series B Preferred Units, including to existing investors and investors affiliated with our board of directors. In addition, in connection with such transactions we issued 5.4 million Common Units and warrants to purchase 1.6 million Series B Preferred Units to our placement agents.

- In July 2017, we issued 18.34 million Common Units to existing investors who committed to invest \$9.17 million into our Series B financing.
- From August 2017 through December 2017, we issued Series B Preferred Units for aggregate consideration of \$73.6 million. In connection with such transactions, we issued 105.2 million Series B Preferred Units, and warrants to purchase 35.45 million Common Units, including to existing investors, those affiliated with members of our board of directors and our placement agents.
- Since January 1, 2015, we have granted, net of forfeitures, 52.1 million Profits Interests to employees, consultants and certain members of our board of directors.

We claimed exemption from registration under the Securities Act for the sales and issuances of securities in the transactions described above under Section 4(a)(2) of the Securities Act and/or Regulation D promulgated thereunder, in that such sales and issuances did not involve a public offering, or under Rule 701 promulgated under the Securities Act, in that they were offered and sold either pursuant to written compensatory plans or pursuant to a written contract relating to compensation, as provided by Rule 701. All of the purchasers of unregistered securities for which we relied on Section 4(a) (2) and/or Regulation D represented that they were accredited investors as defined under the Securities Act.

Item 16. Exhibits and Financial Statement Schedules.

(a) Exhibits.

EXHIBIT INDEX

Exhibit No.	
1.1**	Form of Underwriting Agreement
3.1***	Form of Certificate of Incorporation of electroCore, Inc. (to be effective upon completion of the Registrant's conversion from a limited liability company to a corporation)
3.2*	Form of Bylaws of electroCore, Inc. (to be effective upon completion of the Registrant's conversion from a limited liability company to a corporation)
3.3*	Second Amended and Restated Limited Liability Company Agreement, dated as of August 18, 2017, by and among ElectroCore, LLC and the members party thereto
3.4*	Third Amended and Restated Limited Liability Company Agreement, dated as of November 21, 2017, by and among ElectroCore, LLC and the members party thereto
5.1*	Opinion of Dentons US LLP
10.1*	Investors' Rights Agreement, dated as of March 28, 2013, by and among ElectroCore, LLC and the investors party thereto
10.2*	Amended and Restated Investors' Rights Agreement, dated as of August 18, 2017, by and among Electrocore, LLC and the investors party thereto
10.3*†	Form of ElectroCore, LLC Unit Forfeiture Agreement
10.4*†	electroCore, Inc. 2018 Omnibus Equity Incentive Plan
10.5*†	Form of Employee Incentive Stock Option Agreement for electroCore, Inc. 2018 Omnibus Equity Incentive Plan
10.6*†	Form of Non-qualified Stock Option Agreement for electroCore, Inc. 2018 Omnibus Equity Incentive Plan
10.7*†	Form of Employee Restricted Stock Award Agreement for electroCore, Inc. 2018 Omnibus Equity Incentive Plan
10.8*†	Form of Non-Employee Director Inaugural Deferred Stock Unit Award Agreement for electroCore, Inc. 2018 Omnibus Equity Incentive Plan
10.9*†	Form of Non-Employee Director Inaugural Non-qualified Stock Option Agreement for electroCore, Inc. 2018 Omnibus Equity Incentive Plan
10.10*†	Form of Non-Employee Director Inaugural Restricted Stock Unit Agreement for electroCore, Inc. 2018 Omnibus Equity Incentive Plan
10.11*†	Form of Non-Employee Director Annual Deferred Stock Unit Award Agreement for electroCore, Inc. 2018 Omnibus Equity Incentive Plan
10.12*†	Form of Non-Employee Director Annual Non-qualified Stock Option Agreement for electroCore, Inc. 2018 Omnibus Equity Incentive Plan
10.13*†	Form of Non-Employee Director Annual Restricted Stock Unit Agreement for electroCore, Inc. 2018 Omnibus Equity Incentive Plan
10.14*†	Form of Indemnification Agreement between the Registrant and each of its executive officers and directors
10.15*†	Form of electroCore, Inc. Management Severance Plan (to be effective upon completion of Registrant's conversion from a limited liability company to a corporation)
10.16*†	Form of electroCore, Inc. Non-Employee Director Compensation Policy (to be effective upon completion of Registrant's conversion from a limited liability company to a corporation)

Exhibit No.	
10.17*†	Employment Offer Letter, dated as of July 18, 2016, by and between ElectroCore, LLC and Francis R. Amato
10.18*†	Employment Offer Letter, dated as of July 18, 2016, by and between ElectroCore, LLC and Joseph P. Errico
10.19*†	Employment Offer Letter, dated as of May 1, 2017, by and between ElectroCore, LLC and Peter S. Staats
10.20*†	Employment Offer Letter, dated as of July 25, 2016, by and between ElectroCore, LLC and Glenn S. Vraniak
10.21*	Office Lease between 150 Allen Road, LLC and Electrocore, LLC
10.22*	Form of Common Unit Warrant
10.23*	Form of Series A Warrant
10.24*	Form of Bridge Warrant
10.25*	Master Services Agreement dated October 17, 2016 between ElectroCore, LLC and Asembia LLC
21.1*	<u>List of subsidiaries of Electrocore, LLC</u>
23.1*	Consent of Dentons US LLP (included as part of Exhibit 5.1)
23.2**	Consent of KPMG LLP, independent registered public accounting firm
24.1*	Powers of Attorney (included on signature pages).
99.1*	Consent of Michael G. Atieh
99.2*	Consent of Stephen L. Ondra, M.D.
99.3*	Consent of Carrie S. Cox

^{*} Previously filed.

(b) Financial Statement Schedules. Schedules not listed above have been omitted because the information required to be set forth therein is not applicable or is shown in the financial statements or notes thereto.

Item 17. Undertakings.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act, and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer, or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question of whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

^{**} Filed herewith.

^{***} To be filed by amendment.

[†] Indicates management agreement.

The undersigned Registrant hereby undertakes that:

- 1. For purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus filed as part of this Registration Statement in reliance upon Rule 430A and contained in a form of prospectus filed by the Registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this Registration Statement as of the time it was declared effective.
- 2. For the purpose of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

The undersigned Registrant hereby undertakes to provide to the underwriters at the closing specified in the underwriting agreement certificates in such denominations and registered in such names as required by the underwriters to permit prompt delivery to each purchaser.

Attorney-in-Fact

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant has duly caused this Amendment No. 2 to the Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Basking Ridge, State of New Jersey, on this 11th day of June 2018.

ELECTROCORE, LLC

By /s/ Francis R. Amato

Francis R. Amato
Chief Executive Officer

Pursuant to the requirements of the Securities Act, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
/s/ Francis R. Amato Francis R. Amato	Chief Executive Officer and Director (<i>Principal Executive</i> Officer)	June 11, 2018
Fidicis A. / Midto	officer)	
/s/ Glenn S. Vraniak	Chief Financial Officer	June 11, 2018
Glenn S. Vraniak	(Principal Financial and Accounting Officer)	
*	Chairman of the Board	June 11, 2018
Joseph P. Errico	_	
*	Director	June 11, 2018
Nicholas Colucci	_	
*	Director	June 11, 2018
Thomas J. Errico, M.D.	_	
*	Director	June 11, 2018
Trevor J. Moody	_	
*	Director	June 11, 2018
Michael W. Ross	_	
*	Director	June 11, 2018
Dr. David M. Rubin	_	
*	Director	June 11, 2018
James L.L. Tullis	_	
* Pursuant to Power of Attorney		
By: /s/ Francis R. Amato		
Francis R. Amato	_	

[] Shares

electroCore, Inc.

Common Stock

PURCHASE AGREEMENT

[], 2018

EVERCORE GROUP L.L.C.
CANTOR FITZGERALD & CO.
JMP SECURITIES LLC
As Representatives of the several
Underwriters named in Schedule I hereto

c/o Evercore Group L.L.C. 55 East 52nd Street New York, New York 10055

c/o Cantor Fitzgerald & Co. 499 Park Avenue New York, NY 10022

c/o JMP Securities LLC 600 Montgomery Street, Suite 1100 San Francisco, CA 94111

Ladies and Gentlemen:

electroCore, Inc., a Delaware corporation (the "Company"), proposes to sell to the several Underwriters named in Schedule I hereto (the "Underwriters") an aggregate of [] shares (the "Firm Shares") of Common Stock, \$0.001 par value per share (the "Common Stock"), of the Company. The Company has also granted to the several Underwriters an option to purchase up to [] additional shares of Common Stock, on the terms and for the purposes set forth in Section 3 hereof (the "Option Shares"). The Firm Shares and any Option Shares purchased pursuant to this purchase agreement (this "Agreement") are herein collectively called the "Securities."

The following actions have been effected in accordance with Delaware law: (i) ElectroCore, LLC, a Delaware limited liability company ("*ElectroCore LLC*"), has been converted into a Delaware corporation pursuant to a statutory conversion and (ii) ElectroCore LLC has changed its name to electroCore, Inc. Such actions are collectively referred to herein as the "*Corporate Conversion*."

The Company hereby confirms its agreement with respect to the sale of the Securities to the several Underwriters, for whom Evercore Group L.L.C., Cantor Fitzgerald & Co., and JMP Securities LLC are acting as representatives (the "*Representatives*").

1. Registration Statement and Prospectus. A registration statement on Form S-1 (File No. 333-225084) with respect to the Securities, including a preliminary form of prospectus, has been prepared by the Company in conformity with the requirements of the Securities Act of 1933, as amended (the "Act"), and the rules and regulations (the "Rules and Regulations") of the Securities and Exchange Commission (the "Commission") thereunder and has been filed with the Commission. Such registration statement, including the amendments, exhibits and schedules thereto, as of the time it became effective, including the Rule 430A Information (as defined below), is referred to herein as the "Registration Statement". The Company will prepare and file a prospectus pursuant to Rule 424(b) of the Rules and Regulations that discloses the information previously omitted from the prospectus in the Registration Statement in reliance upon Rule 430A of the Rules and Regulations, which information will be deemed retroactively to be a part of the Registration Statement in accordance with Rule 430A of the Rules and Regulations ("Rule 430A Information"). If the Company has elected to rely upon Rule 462(b) of the Rules and Regulations to increase the size of the offering registered under the Act, the Company will prepare and file with the Commission a registration statement with respect to such increase pursuant to Rule 462(b) of the Rules and Regulations (such registration statement, including the contents of the Registration Statement incorporated by reference therein is the "Rule 462(b) Registration Statement"). References herein to the "Registration Statement" will be deemed to include the Rule 462(b) Registration Statement at and after the time of filing of the Rule 462(b) Registration Statement. "Preliminary Prospectus" means any prospectus included in the Registration Statement prior to the effective time of the Registration Statement, any prospectus filed with the Commission pursuant to Rule 424(a) under the Rules and Regulations and each prospectus that omits Rule 430A Information used after the effective time of the Registration Statement. "Prospectus" means the prospectus that discloses the public offering price and other final terms of the Securities and the offering and otherwise satisfies Section 10(a) of the Act. All references in this Agreement to the Registration Statement, any Preliminary Prospectus, the Prospectus or any amendment or supplement to any of the foregoing, is deemed to include the copy filed with the Commission pursuant to its Electronic Data Gathering, Analysis and Retrieval System or any successor system thereto ("EDGAR").

2. Representations and Warranties of the Company.

- (a) The Company represents and warrants to, and agrees with, the several Underwriters as follows:
- (i) <u>Registration Statement and Prospectuses</u>. The Registration Statement and any post-effective amendment thereto has become effective under the Act. No stop order suspending the effectiveness of the Registration Statement or any post-effective amendment thereto has been issued by the Commission, and no proceeding for that purpose has been initiated or, to the Company's knowledge, threatened by the Commission. No order preventing or suspending the use of any Preliminary Prospectus or the Prospectus (or any supplement thereto) has been issued by the Commission and no proceeding for that purpose has been initiated or, to the Company's knowledge, threatened by the Commission. As of the time each part of the Registration Statement (or any post-effective amendment thereto) became or becomes effective, such part conformed or will conform in all material respects to the requirements of the Act and the Rules and Regulations. Upon the filing or first use within the meaning of the Rules and Regulations, each Preliminary Prospectus and the Prospectus (or any supplement to either) conformed or will conform in all material respects to the requirements of the Act and the Rules and Regulations.

(ii) Accurate Disclosure. Each Preliminary Prospectus, at the time of filing thereof or the time of first use within the meaning of the Rules and Regulations, did not contain an untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading. Neither the Registration Statement nor any amendment thereto, at the effective time of each part thereof, at the First Closing Date (as defined below) or at the Second Closing Date (as defined below), contained, contains or will contain an untrue statement of a material fact or omitted, omits or will omit to state a material fact required to be stated therein or necessary to make the statements therein not misleading. As of the Time of Sale (as defined below), neither (A) the Time of Sale Disclosure Package (as defined below) nor (B) any issuer free writing prospectus (as defined below), when considered together with the Time of Sale Disclosure Package, included an untrue statement of a material fact or omitted to state a material fact necessary in order to make the statements therein, in light of the circumstances under which they were made, not misleading. Neither the Prospectus nor any supplement thereto, as of its issue date, at the time of any filing with the Commission pursuant to Rule 424(b) of the Rules and Regulations, at the First Closing Date or at the Second Closing Date, included, includes or will include an untrue statement of a material fact or omitted, omits or will omit to state a material fact necessary in order to make the statements therein, in light of the circumstances under which they were made, not misleading. The representations and warranties in this Section 2(a)(ii) shall not apply to statements in or omissions from any Preliminary Prospectus, the Registration Statement (or any amendment thereto), the Time of Sale Disclosure Package or the Prospectus (or any supplement thereto) made in reliance upon, and in conformity with, written information furnished to the Company by you, or by any Underwriter through you, specifically for use in the preparation of such document, it being understood and agreed that the only such information furnished by any Underwriter consists of the information described as such in Section 6(e).

Each reference to an "issuer free writing prospectus" herein means an issuer free writing prospectus as defined in Rule 433 of the Rules and Regulations.

"Time of Sale Disclosure Package" means the Preliminary Prospectus dated [], 2018, any free writing prospectus set forth on Schedule III and the information on Schedule IV, all considered together.

Each reference to a "free writing prospectus" herein means a free writing prospectus as defined in Rule 405 of the Rules and Regulations.

"Time of Sale" means []:[] [a./p.]m. (Eastern time) on the date of this Agreement.

(iii) Issuer Free Writing Prospectuses.

- (A) Each issuer free writing prospectus, as of its issue date and at all subsequent times through the completion of the public offer and sale of the Securities or until any earlier date that the Company notified or notifies the Representatives as described in Section 4(c)(ii), did not, does not and will not include any information that conflicted, conflicts or will conflict with the information contained in the Registration Statement, any Preliminary Prospectus or the Prospectus. The foregoing sentence does not apply to statements in or omissions from any issuer free writing prospectus based upon and in conformity with written information furnished to the Company by you or by any Underwriter through you specifically for use therein; it being understood and agreed that the only such information furnished by any Underwriter consists of the information described as such in Section 6(e).
- (B) At the time of filing the Registration Statement and any post-effective amendment thereto, and at the date hereof, the Company was not and is not an "ineligible issuer," as defined in Rule 405 of the Rules and Regulations, without taking account of any determination by the Commission pursuant to Rule 405 of the Rules and Regulations that it is not necessary that the Company be considered an ineligible issuer.
- (C) Each issuer free writing prospectus satisfied, as of its issue date and at all subsequent times through the completion of the public offer and sale of the Securities, all other conditions to use thereof as set forth in Rules 164 and 433 under the Act.
- (iv) <u>Emerging Growth Company</u>. From the time of initial confidential submission of the Registration Statement to the Commission (or, if earlier, the first date on which the Company engaged directly or through any person authorized to act on its behalf in any Testing-the-Waters Communication (as defined below)) through the date hereof, the Company has been and is an "emerging growth company," as defined in Section 2(a) of the Act (an "Emerging Growth Company"). "Testing-the-Waters Communication" means any oral or written communication with potential investors undertaken in reliance on Section 5(d) of the Act.
- (v) <u>Testing-the-Waters Materials</u>. The Company (i) has not alone engaged in any Testing-the-Waters Communications, other than Testing-the-Waters Communications with the prior consent of the Representatives with entities that are qualified institutional buyers within the meaning of Rule 144A under the Act or institutions that are accredited investors within the meaning of Rule 501 under the Act and (ii) has not authorized anyone other than the Representatives to engage in Testing-the-Waters Communications. The Company has not distributed any Written Testing-the-Waters Communications (as defined below) other than those listed on Schedule V hereto. "Written Testing-the-Waters Communication that is a written communication within the meaning of Rule 405 under the Act. Any individual Written Testing-the-Waters Communication does not conflict with the information contained in the Registration Statement or the Time of Sale Disclosure Package, complied in all material respects with the Act, and

when taken together with the Time of Sale Disclosure Package as of the Time of Sale, did not contain any untrue statement of a material fact or omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading.

- (vi) <u>No Other Offering Materials</u>. The Company has not distributed and will not distribute any prospectus or other offering material in connection with the offering and sale of the Securities other than any Preliminary Prospectus, the Time of Sale Disclosure Package or the Prospectus or other materials permitted by the Act to be distributed by the Company (it being understood that Testing-the-Waters Communications are not covered by the foregoing); *provided, however*, that, except as set forth on Schedule III, the Company has not made and will not make any offer relating to the Securities that would constitute a free writing prospectus, except in accordance with the provisions of Section 4(m) of this Agreement and, except as set forth on Schedule V, the Company has not made and will not make any communication relating to the Securities that would constitute a Testing-the-Waters Communication, except in accordance with the provisions of Section 2(a)(v) of this Agreement.
- (vii) *Financial Statements*. The financial statements of the Company, together with the related notes, set forth in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus comply in all material respects with the requirements of the Act and fairly present the financial condition of the Company and its consolidated subsidiaries as of the dates indicated and the results of operations and changes in cash flows for the periods therein specified in conformity with generally accepted accounting principles in the United States ("*GAAP*") consistently applied throughout the periods involved; the supporting schedules included in the Registration Statement present fairly the information required to be stated therein; and, except as disclosed in the Time of Sale Disclosure Package and the Prospectus, there are no material off-balance sheet arrangements (as defined in Regulation S-K under the Act, Item 303(a)(4)(ii)) or any other relationships with unconsolidated entities or other persons, that may have a material current or, to the Company's knowledge, material future effect on the Company's financial condition, results of operations, liquidity, capital expenditures, capital resources or significant components of revenue or expenses. No other financial statements or schedules are required to be included in the Registration Statement, the Time of Sale Disclosure Package or the Prospectus. KPMG LLP, which has expressed its opinion with respect to the financial statements and schedules filed as a part of the Registration Statement and included in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus, is (x) an independent public accounting firm within the meaning of the Act and the Rules and Regulations, (y) a registered public accounting firm (as defined in Section 2(a)(12) of the Sarbanes-Oxley Act of 2002 (the "Sarbanes-Oxley Act")) and (z) not in violation of the auditor independence requirements of the Sarbanes-Oxley Act.
- (viii) <u>Organization and Good Standing</u>. Each of the Company and its subsidiaries has been duly organized and is validly existing in good standing under the laws of its jurisdiction of incorporation or organization. Each of the Company and its subsidiaries has full power and authority to own its properties and conduct its business as

currently being carried on and as described in the Registration Statement, the Time of Sale Disclosure Package and Prospectus, and is duly qualified to do business and in good standing in each jurisdiction in which it owns or leases real property or in which the conduct of its business makes such qualification necessary and in which the failure to so qualify would reasonably be expected to have a material adverse effect upon the business, prospects, management, properties, operations, condition (financial or otherwise) or results of operations of the Company and its subsidiaries, taken as a whole (a "Material Adverse Effect").

- (ix) <u>Absence of Certain Events</u>. Except as contemplated in the Time of Sale Disclosure Package and in the Prospectus, subsequent to the respective dates as of which information is given in the Time of Sale Disclosure Package, neither the Company nor any of its subsidiaries has incurred any material liabilities or obligations, direct or contingent, or entered into any material transactions, or declared or paid any dividends or made any distribution of any kind with respect to its capital stock; and there has not been any change in the capital stock, or any material change in the short-term or long-term debt (other than as a result of the conversion of convertible securities), or any issuance of options, warrants, convertible securities or other rights to purchase the capital stock, of the Company or any of its subsidiaries, or any material adverse change in the general affairs, condition (financial or otherwise), business, prospects, management, properties, operations or results of operations of the Company and its subsidiaries, taken as a whole (a "Material Adverse Change") or any development which could reasonably be expected to result in any Material Adverse Change.
- (x) <u>Absence of Proceedings</u>. Except as set forth in the Time of Sale Disclosure Package and in the Prospectus, there is not pending or, to the knowledge of the Company, threatened or contemplated, any action, suit or proceeding (a) to which the Company or any of its subsidiaries is a party or (b) which has as the subject thereof any officer or director of the Company or any subsidiary, any employee benefit plan sponsored by the Company or any subsidiary or any property or assets owned or leased by the Company or any subsidiary before or by any court or Governmental Authority (as defined below), or any arbitrator, which, individually or in the aggregate, might result in any Material Adverse Change, or would materially and adversely affect the ability of the Company to perform its obligations under this Agreement or which are otherwise material in the context of the sale of the Securities. There are no current or, to the knowledge of the Company, pending, legal, governmental or regulatory actions, suits or proceedings (x) to which the Company or any of its subsidiaries is subject or (y) which has as the subject thereof any officer or director of the Company or any subsidiary, any employee plan sponsored by the Company or any subsidiary or any property or assets owned or leased by the Company or any subsidiary, that are required to be described in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus by the Act or by the Rules and Regulations and that have not been so described.
- (xi) <u>Authorization; No Conflicts; Authority</u>. This Agreement has been duly authorized, executed and delivered by the Company, and constitutes a valid, legal and binding obligation of the Company, enforceable in accordance with its terms, except as rights to indemnity hereunder may be limited by federal or state securities laws and

except as such enforceability may be limited by bankruptcy, insolvency, reorganization or similar laws affecting the rights of creditors generally and subject to general principles of equity. The execution, delivery and performance of this Agreement and the consummation of the transactions herein contemplated will not (A) conflict with or result in a breach or violation of any of the terms or provisions of, or constitute a default under, or result in the creation or imposition of any lien, charge or encumbrance upon any property or assets of the Company or any of its subsidiaries pursuant to any indenture, mortgage, deed of trust, loan agreement or other agreement or instrument to which the Company or any of its subsidiaries is a party or by which the Company or any of its subsidiaries is bound or to which any of the property or assets of the Company or any of its subsidiaries is subject, (B) result in any violation of the provisions of the Company's charter or by-laws or (C) result in the violation of any law or statute or any judgment, order, rule, regulation or decree of any court or arbitrator or federal, state, local or foreign governmental agency or regulatory authority having jurisdiction over the Company or any of its subsidiaries or any of their properties or assets (each, a "Governmental Authority"), except in the case of clause (A) as would not reasonably be expected to result in a Material Adverse Effect. No consent, approval, authorization or order of, or registration or filling with any Governmental Authority is required for the execution, delivery and performance of this Agreement or for the consummation of the transactions contemplated hereby, including the issuance or sale of the Securities by the Company, except such as may be required under the Act, the rules of the Financial Industry Regulatory Authority, Inc. ("FINRA") or state securities or blue sky laws; and the Company has full power and authority to enter into this Agreement and to consummate the transactions contemplated hereby, includ

(xii) <u>Capitalization; the Securities; Registration Rights</u>. All of the issued and outstanding shares of capital stock of the Company, including the outstanding shares of Common Stock, are duly authorized and validly issued, fully paid and nonassessable, have been issued in compliance with all federal and state and foreign securities laws, were not issued in violation of or subject to any preemptive rights or other rights to subscribe for or purchase securities that have not been waived in writing (a copy of which has been delivered to counsel to the Representatives), and the holders thereof are not subject to personal liability by reason of being such holders; the Securities which may be sold hereunder by the Company have been duly authorized and, when issued, delivered and paid for in accordance with the terms of this Agreement, will have been validly issued and will be fully paid and nonassessable, and the holders thereof will not be subject to personal liability by reason of being such holders; and the capital stock of the Company, including the Common Stock, conforms to the description thereof in the Registration Statement, in the Time of Sale Disclosure Package and in the Prospectus. Except as otherwise stated in the Registration Statement, in the Time of Sale Disclosure Package and in the Prospectus, (A) there are no preemptive rights or other rights to subscribe for or to purchase, or any restriction upon the voting or transfer of, any shares of Common Stock pursuant to the Company's charter, by-laws or any agreement or other instrument to which the Company or any of its subsidiaries is a party or by which the Company or any of its subsidiaries is bound, (B) neither the filing of the Registration Statement nor the offering or sale of the Securities as contemplated by this Agreement

gives rise to any rights for or relating to the registration of any shares of Common Stock or other securities of the Company (collectively, "Registration Rights") that have not been waived and (C) any person to whom the Company has granted Registration Rights has agreed not to exercise or has otherwise waived such rights until after expiration of the Lock-Up Period (as defined below). All of the issued and outstanding shares of capital stock of each of the Company's subsidiaries have been duly and validly authorized and issued and are fully paid and nonassessable, and, except as otherwise described in the Registration Statement, in the Time of Sale Disclosure Package and in the Prospectus, the Company owns of record and beneficially, free and clear of any security interests, claims, liens, proxies, equities or other encumbrances, all of the issued and outstanding shares of such stock. The Company has an authorized and outstanding capitalization as set forth in the Registration Statement, in the Time of Sale Disclosure Package and in the Prospectus under the caption "Capitalization." The Common Stock (including the Securities) conforms in all material respects to the description thereof contained in the Time of Sale Disclosure Package and the Prospectus.

(xiii) <u>Stock Options</u>. Except as described in the Registration Statement, in the Time of Sale Disclosure Package and in the Prospectus, there are no options, warrants, agreements, contracts or other rights in existence to purchase or acquire from the Company or any subsidiary of the Company any shares of the capital stock of the Company or any subsidiary of the Company. The description of the Company's stock option, stock bonus and other stock plans or arrangements (the "Company Stock Plans"), and the options (the "Options") or other rights granted thereunder, set forth in the Time of Sale Disclosure Package and the Prospectus accurately and fairly presents in all material respects the information required to be shown with respect to such plans, arrangements, options and rights. Each grant of an Option (A) was duly authorized no later than the date on which the grant of such Option was by its terms to be effective by all necessary corporate action, including, as applicable, approval by the board of managers or directors of the Company (or a duly constituted and authorized committee thereof) and any required member or stockholder approval by the necessary number of votes or written consents, and the award agreement governing such grant (if any) was duly executed and delivered by each party thereto and (B) was made in accordance with the terms of the applicable Company Stock Plan, and all applicable laws and regulatory rules or requirements, including all applicable federal securities laws.

(xiv) <u>Compliance with Laws</u>. Except as would not reasonably be expected to have a Material Adverse Effect: (A) the Company and each of its subsidiaries holds, and is operating in compliance with, all franchises, grants, authorizations, licenses, permits, easements, consents, certificates and orders of any Governmental Authority or self-regulatory body required for the conduct of its business and all such franchises, grants, authorizations, licenses, permits, easements, consents, certifications and orders are valid and in full force and effect; (B) neither the Company nor any of its subsidiaries has received notice of any revocation or modification of any such franchise, grant, authorization, license, permit, easement, consent, certification or order or has reason to believe that any such franchise, grant, authorization, license, permit, easement, consent, certification or order will not be renewed in the ordinary course; and (C) the Company and each of its subsidiaries is in compliance with all applicable federal, state, local and foreign laws, regulations, orders and decrees.

(xv) <u>Ownership of Assets</u>. The Company and its subsidiaries have good and marketable title to all property (whether real or personal) described in the Registration Statement, in the Time of Sale Disclosure Package and in the Prospectus as being owned by them, in each case free and clear of all liens, claims, security interests, other encumbrances or defects except such as would not reasonably be expected to have a Material Adverse Effect or as are described in the Registration Statement, in the Time of Sale Disclosure Package and in the Prospectus. The property held under lease by the Company and its subsidiaries is held by them under valid, subsisting and enforceable leases with only such exceptions with respect to any particular lease as do not interfere with the conduct of the business of the Company or its subsidiaries except as would not reasonably be expected to have a Material Adverse Effect.

(xvi) *Intellectual Property*. The Company and each of its subsidiaries own, possess, license or have other rights to use, or can acquire on reasonable terms, all Intellectual Property, which to the knowledge of the Company have been duly and properly filed and maintained, reasonably necessary for the conduct of the Company's and it subsidiaries' respective businesses as now conducted or as described in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus to be conducted, except as such failure to own, possess, license or have other rights to use, or acquire such rights would not reasonably be expected to result in a Material Adverse Effect. Furthermore, (A) to the knowledge of the Company, there is no infringement, misappropriation or violation by third parties of any such Intellectual Property, except as such infringement, misappropriation or violation would not reasonably be expected to result in a Material Adverse Effect; (B) there is no pending or, to the knowledge of the Company, threatened, action, suit, proceeding or claim by others challenging the Company's or any of its subsidiaries' rights in or to any such Intellectual Property, except as such action, suit, proceeding or claim would not reasonably be expected to result in a Material Adverse Effect, and the Company is unaware of any facts which would form a reasonable basis for any such claim; (C) the Intellectual Property owned by the Company and its subsidiaries, and to the knowledge of the Company, the Intellectual Property licensed to the Company and its subsidiaries, has not been adjudged invalid or unenforceable, in whole or in part, and there is no pending or, to the knowledge of the Company, threatened action, suit, proceeding or claim by others challenging the validity or scope of any such Intellectual Property, except as such action, suit, proceeding or claim would not reasonably be expected to result in a Material Adverse Effect, and the Company is unaware of any facts which would form a reasonable basis for any such claim; (D) there is no pending or, to the knowledge of the Company, threatened action, suit, proceeding or claim by others that the Company or any of its subsidiaries infringes, misappropriates or otherwise violates any Intellectual Property or other proprietary rights of others, or would, upon the commercialization of any product described in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus, except as such action, suit, proceeding or claim would not reasonably be expected to result in a Material Adverse Effect, and neither the Company nor any of its subsidiaries has received any written notice of such claim and the Company is unaware of any other fact which

would form a reasonable basis for any such claim; (E) to the knowledge of the Company, no employee of the Company or any of its subsidiaries is in or has ever been in violation of any term of any employment contract, patent disclosure agreement, invention assignment agreement, non-competition agreement, non-solicitation agreement, nondisclosure agreement or any restrictive covenant to or with a former employer where the basis of such violation relates to such employee's employment with the Company or any of its subsidiaries or actions undertaken by the employee while employed with the Company or any of its subsidiaries, except as such violation would not reasonably be expected to result in a Material Adverse Effect; and (F) to the knowledge of the Company, there are no rights of third parties to any Intellectual Property owned by the Company and its subsidiaries, except as such rights would not reasonably be expected to result in a Material Adverse Effect. Except as would not reasonably be expected to have a Material Adverse Effect, (A) the Company has disclosed to the U.S. Patent and Trademark Office ("USPTO") all material information of which it is aware that is relevant to the patentability of its inventions to the extent required by 37 C.F.R. Section 1.56, and (B) the Company has not made any misrepresentation or concealed any information material to patentability of a claimed invention from the USPTO in any of the patents or patent applications owned or licensed to the Company, or in connection with the prosecution thereof, in violation of 37 C.F.R. Section 1.56. "Intellectual Property" shall mean all patents, patent applications, trademarks and service marks, trademark and service mark registrations, trade names, copyrights, licenses, inventions, trade secrets, domain names, technology, know-how and other intellectual property.

(xvii) <u>No Violations or Defaults</u>. Neither the Company nor any of its subsidiaries is in violation of (A) its respective charter, by-laws or other organizational documents, or (B) in breach of or otherwise in default, and no event has occurred which, with notice or lapse of time or both, would constitute such a default in the performance of any material obligation, agreement or condition contained in any bond, debenture, note, indenture, loan agreement or any other material contract, lease or other instrument to which it is subject or by which any of them may be bound, or to which any of the material property or assets of the Company or any of its subsidiaries is subject, except in the case of clause (B), as would not reasonably be expected to have a Material Adverse Effect.

(xviii) <u>Taxes</u>. The Company and its subsidiaries have timely filed all federal, state, local and foreign income and franchise tax returns required to be filed by them or have properly requested extensions thereof (except as any such failure to file would not reasonably be expected to have a Material Adverse Effect) and are not in default in the payment of any taxes which were payable pursuant to said returns or any assessments with respect thereto, other than any which the Company or any of its subsidiaries is contesting in good faith or as would not reasonably be expected to have a Material Adverse Effect. There is no pending dispute with any taxing authority relating to any of such returns, and the Company has no knowledge of any proposed liability for any tax to be imposed upon the properties or assets of the Company or any of its subsidiaries for which there is not an adequate reserve reflected in the Company's financial statements included in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus, except where such dispute or liability would not reasonably be expected to have a Material Adverse Effect.

(xix) <u>Exchange Listing and Exchange Act Registration</u>. The Securities have been approved for listing on the The Nasdaq Global Select Market Stock Exchange ("*Nasdaq*") upon official notice of issuance and, on the date the Registration Statement became effective, the Company's Registration Statement on Form 8-A or other applicable form under the Securities Exchange Act of 1934, as amended (the "*Exchange Act*"), became effective. Except as previously disclosed to counsel for the Underwriters or as set forth in the Time of Sale Disclosure Package and the Prospectus, there are no affiliations with members of FINRA among the Company's officers or directors or, to the knowledge of the Company, any five percent or greater stockholders of the Company or any beneficial owner of the Company's unregistered equity securities that were acquired during the 180-day period immediately preceding the initial filing date of the Registration Statement.

(xx) <u>Disclosure</u>. The statements set forth in the Time of Sale Disclosure Package and the Prospectus under the caption "Description of Capital Stock," insofar as they purport to constitute a summary of the terms of the Common Stock, and under the captions "Material U.S. Federal Income Tax Consequences to Non-U.S. Holders of Our Common Stock" and "Shares Eligible for Future Sale," insofar as they purport to describe the provisions of the laws and documents referred to therein, are accurate summaries in all material respects.

(xxi) <u>Ownership of Other Entities</u>. Other than the subsidiaries of the Company listed in Schedule VI hereto and its interest in electroCore (Aust) Pty Limited, the Company, directly or indirectly, owns no capital stock or other equity or ownership or proprietary interest in any corporation, partnership, association, trust or other entity.

(xxii) <u>Internal Controls</u>. The Company and its subsidiaries maintain a system of internal accounting controls sufficient to provide reasonable assurances that (i) transactions are executed in accordance with management's general or specific authorization; (ii) transactions are recorded as necessary to permit preparation of financial statements in conformity with GAAP and to maintain accountability for assets; (iii) access to assets is permitted only in accordance with management's general or specific authorization; and (iv) the recorded accountability for assets is compared with existing assets at reasonable intervals and appropriate action is taken with respect to any differences. Except as disclosed in the Registration Statement, in the Time of Sale Disclosure Package and in the Prospectus, none of the Company, its board of directors and audit committee is aware of any "material weaknesses" (as defined by the Public Company Accounting Oversight Board) in its internal control over financial reporting, or any fraud, whether or not material, that involves management or other employees of the Company or its subsidiaries who have a significant role in the Company's internal controls; and since the end of the latest audited fiscal year, there has been no change in the Company's internal control over financial reporting (whether or not remediated) that has materially adversely affected, or is reasonably likely to materially adversely affect, the Company's internal control over financial reporting. The Company's board of

directors has, subject to the exceptions, cure periods and the phase-in periods specified in the applicable stock exchange rules ("Exchange Rules"), validly appointed an audit committee to oversee internal accounting controls whose composition satisfies the applicable requirements of the Exchange Rules and the Company's board of directors and/or the audit committee has adopted a charter that satisfies the requirements of the Exchange Rules.

(xxiii) <u>No Brokers or Finders</u>. Other than as contemplated by this Agreement, the Company has not incurred and will not incur any liability for any finder's or broker's fee or agent's commission in connection with the execution and delivery of this Agreement or the consummation of the transactions contemplated hereby.

(xxiv) <u>Insurance</u>. The Company and each of its subsidiaries carries, or is covered by, insurance from reputable insurers in such amounts and covering such risks as the Company and each subsidiary reasonably considers adequate for the conduct of its business and the value of its properties and the properties of its subsidiaries and as is customary for companies engaged in similar businesses in similar industries; all policies of insurance and any fidelity or surety bonds insuring the Company or any of its subsidiaries or its business, assets, employees, officers and directors are in full force and effect; the Company and its subsidiaries are in compliance with the terms of such policies and instruments in all material respects; there are no claims by the Company or any of its subsidiaries under any such policy or instrument as to which any insurance company is denying liability or defending under a reservation of rights clause; neither the Company nor any of its subsidiaries has been refused any insurance coverage sought or applied for; and neither the Company nor any of its subsidiaries has reason to believe that it will not be able to renew its existing insurance coverage as and when such coverage expires or to obtain similar coverage from similar insurers as may be necessary to continue its business at a cost that would not reasonably be expected to have a Material Adverse Effect.

(xxv) <u>Investment Company Act</u>. The Company is not and, after giving effect to the offering and sale of the Securities and application of the use of proceeds therefrom as described in the Time of Sale Disclosure Package and the Prospectus, will not be required to register as an "investment company," as such term is defined in the Investment Company Act of 1940, as amended.

(xxvi) <u>Sarbanes-Oxley Act</u>. The Company is in compliance in all material respects with all applicable provisions of the Sarbanes-Oxley Act and the rules and regulations of the Commission thereunder.

(xxvii) <u>Disclosure Controls</u>. The Company has established and maintains disclosure controls and procedures (as defined in Rules 13a-14 and 15d-14 under the Exchange Act) and such controls and procedures are effective in ensuring that material information relating to the Company, including its subsidiaries, is made known to the principal executive officer and the principal financial officer. The Company has utilized such controls and procedures in preparing and evaluating the disclosures in the Registration Statement, in the Time of Sale Disclosure Package and in the Prospectus.

(xxviii) Anti-Bribery and Anti-Money Laundering Laws. Each of the Company, its subsidiaries, its affiliates and any of their respective officers, directors, supervisors, managers, or employees, and to the Company's knowledge, its agents, has not violated, its participation in the offering will not violate, and the Company and each of its subsidiaries has instituted and maintains policies and procedures designed to ensure continued compliance with, each of the following laws to the extent applicable to the Company or any of its subsidiaries: (A) anti-bribery laws, including but not limited to, any applicable law, rule, or regulation of any locality, including but not limited to any law, rule, or regulation promulgated to implement the OECD Convention on Combating Bribery of Foreign Public Officials in International Business Transactions, signed December 17, 1997, including the U.S. Foreign Corrupt Practices Act of 1977, as amended, the U.K. Bribery Act 2010, or any other law, rule or regulation of similar purposes and scope or (B) anti-money laundering laws, including but not limited to, applicable federal, state, international, foreign or other laws, regulations or government guidance regarding anti-money laundering, including, without limitation, Title 18 U.S. Code section 1956 and 1957, the Patriot Act, the Bank Secrecy Act, and international anti-money laundering principles or procedures by an intergovernmental group or organization, such as the Financial Action Task Force on Money Laundering, of which the United States is a member and with which designation the United States representative to the group or organization continues to concur, all as amended, and any Executive order, directive, or regulation pursuant to the authority of any of the foregoing, or any orders or licenses issued thereunder.

(xxix) OFAC.

- (A) Neither the Company nor any of its subsidiaries, nor any or their directors, officers or employees, nor, to the Company's knowledge, any agent, affiliate or representative of the Company or its subsidiaries, is an individual or entity that is, or is owned or controlled by an individual or entity that is:
 - (1) the subject of any applicable sanctions administered or enforced by the U.S. Department of Treasury's Office of Foreign Assets Control, the United Nations Security Council, the European Union, Her Majesty's Treasury, or other relevant sanctions authority (collectively, "Sanctions"), nor
 - (2) located, organized or resident in a country or territory that is the subject of Sanctions (including, without limitation, Cuba, Iran, North Korea, Sudan, Syria and Crimea).

- (B) Neither the Company nor any of its subsidiaries will, directly or indirectly, use the proceeds of the offering, or lend, contribute or otherwise make available such proceeds to any subsidiary, joint venture partner or other individual or entity:
 - (1) to fund or facilitate any activities or business of or with any individual or entity or in any country or territory that, at the time of such funding or facilitation, is the subject of Sanctions; or
 - (2) in any other manner that will result in a violation of Sanctions by any individual or entity (including any individual or entity participating in the offering, whether as underwriter, advisor, investor or otherwise).
- (C) For the past five years, neither the Company nor any of its subsidiaries has knowingly engaged in, and is not now knowingly engaged in, any dealings or transactions with any individual or entity, or in any country or territory, that at the time of the dealing or transaction is or was the subject of Sanctions.
- (xxx) <u>Compliance with Environmental Laws</u>. Except as disclosed in the Time of Disclosure Package and the Prospectus, neither the Company nor any of its subsidiaries is in violation of any statute, any rule, regulation, decision or order of any Governmental Authority or any court, domestic or foreign, relating to the use, disposal or release of hazardous or toxic substances or relating to the protection or restoration of the environment or human exposure to hazardous or toxic substances (collectively, "*Environmental Laws*"), owns or operates any real property contaminated with any substance that is subject to any Environmental Laws, is liable for any off-site disposal or contamination pursuant to any Environmental Laws, or is subject to any claim relating to any Environmental Laws, which violation, contamination, liability or claim would individually or in the aggregate, reasonably be expected to have a Material Adverse Effect; and the Company is not aware of any pending investigation which might lead to such a claim. Neither the Company nor any of its subsidiaries anticipates incurring any material capital expenditures relating to compliance with Environmental Laws.
- (xxxi) <u>Compliance with Occupational Laws</u>. The Company and each of its subsidiaries (A) is in compliance, in all material respects, with any and all applicable foreign, federal, state and local laws, rules, regulations, treaties, statutes and codes promulgated by any and all Governmental Authorities (including pursuant to the Occupational Health and Safety Act) relating to the protection of human health and safety in the workplace ("Occupational Laws"); (B) has received all material permits, licenses or other approvals required of it under applicable Occupational Laws to conduct its business as currently conducted; and (C) is in compliance, in all material respects, with all terms and conditions of such permit, license or approval. No action, proceeding, revocation proceeding, writ, injunction or claim is pending or, to the Company's knowledge, threatened against the Company or any of its subsidiaries relating to Occupational Laws, and the Company does not have knowledge of any facts, circumstances or developments relating to its operations or cost accounting practices that could reasonably be expected to form the basis for or give rise to such actions, suits, investigations or proceedings except for any of the foregoing that would not reasonably be expected to have a Material Adverse Effect.

(xxxii) ERISA and Employee Benefits Matters. (A) To the knowledge of the Company, no "prohibited transaction" as defined under Section 406 of ERISA or Section 4975 of the Code and not exempt under ERISA Section 408 and the regulations and published interpretations thereunder has occurred with respect to any Employee Benefit Plan. At no time has the Company or any ERISA Affiliate maintained, sponsored, participated in, contributed to or has or had any liability or obligation in respect of any Employee Benefit Plan subject to Part 3 of Subtitle B of Title I of ERISA, Title IV of ERISA, or Section 412 of the Code or any "multiemployer plan" as defined in Section 3(37) of ERISA or any multiple employer plan for which the Company or any ERISA Affiliate has incurred or would reasonably be expected to incur liability under Section 4063 or 4064 of ERISA. No Employee Benefit Plan provides or promises, or at any time provided or promised, retiree health, life insurance, or other retiree welfare benefits except as may be required by the Consolidated Omnibus Budget Reconciliation Act of 1985, as amended, or similar state law. Each Employee Benefit Plan is and has been operated in material compliance with its terms and all applicable laws, including but not limited to ERISA and the Code and, to the knowledge of the Company, no event has occurred (including a "reportable event" as such term is defined in Section 4043 of ERISA) and no condition exists that would reasonably be expected to subject the Company or any ERISA Affiliate to any material tax, fine, lien, penalty or liability imposed by ERISA, the Code or other applicable law. Each Employee Benefit Plan intended to be qualified under Code Section 401(a) is so qualified and has a favorable determination or opinion letter from the IRS upon which it can rely, and any such determination or opinion letter remains in effect and has not been revoked; to the knowledge of the Company, nothing has occurred since the date of any such determination or opinion letter that is reasonably likely to adversely affect such qualification; (B) with respect to each Foreign Benefit Plan, such Foreign Benefit Plan (1) if intended to qualify for special tax treatment, meets, in all material respects, the requirements for such treatment, and (2) if required to be funded, is funded to the extent required by applicable law, and with respect to all other Foreign Benefit Plans, adequate reserves therefor have been established on the accounting statements of the applicable Company or subsidiary; (C) the Company does not have any obligations under any collective bargaining agreement with any union and to the knowledge of the Company, no organization efforts are underway with respect to Company employees. As used in this Agreement, "Code" means the Internal Revenue Code of 1986, as amended; "Employee Benefit Plan" means any "employee benefit plan" within the meaning of Section 3(3) of ERISA, including, without limitation, all stock purchase, stock option, stock-based severance, employment, change-in-control, medical, disability, fringe benefit, bonus, incentive, deferred compensation, employee loan and all other material employee benefit plans, agreements, programs, policies or other arrangements, whether or not subject to ERISA, under which (x) any current or former employee, director or independent contractor of the Company or its subsidiaries has any present or future right to benefits and which are contributed to, sponsored by or maintained by the Company or any of its subsidiaries or (y) the Company or any of its subsidiaries has had or has any present or future obligation or liability; "ERISA" means the Employee Retirement Income Security Act of 1974, as amended; "ERISA Affiliate" means any member of the company's controlled group as defined in Code Section 414(b), (c), (m) or (o); and "Foreign Benefit Plan" means any Employee Benefit Plan established, maintained or contributed to outside of the United States of America or which covers any employee working or residing outside of the United States.

(xxxiii) <u>Related Party Transactions</u>. There are no relationships, direct or indirect, or related-party transactions involving the Company or any other person required to be described in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus which have not been described in such documents as required.

(xxxiv) <u>Business Arrangements</u>. Except as disclosed in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus, neither the Company nor any of its subsidiaries has granted rights to develop, manufacture, produce, assemble, distribute, license, market or sell its products to any other person and is not bound by any agreement that materially and adversely affects the exclusive right of the Company or such subsidiary to develop, manufacture, produce, assemble, distribute, license, market or sell its products.

(xxxv) <u>Labor Matters</u>. No labor dispute with the employees of the Company or any of its subsidiaries exists or is threatened or imminent, and the Company is not aware of any existing or imminent labor disturbance by the employees of any of its or its subsidiaries' principal suppliers, contractors or customers, that could reasonably be expected to have a Material Adverse Effect.

(xxxvi) <u>Restrictions on Subsidiary Payments to the Company</u>. No subsidiary of the Company is currently prohibited, directly or indirectly, from paying any dividends to the Company, from making any other distribution on such subsidiary's capital stock, from repaying to the Company any loans or advances to such subsidiary from the Company or from transferring any of such subsidiary's property or assets to the Company or any other subsidiary of the Company, except as described in or contemplated by the Time of Sale Disclosure Package and the Prospectus.

(xxxvii) <u>Disclosure of Legal Matters</u>. There are no statutes, regulations, legal or governmental proceedings or contracts or other documents required to be described in the Time of Sale Disclosure Package or in the Prospectus or included as exhibits to the Registration Statement that are not described or included as required.

(xxxviii) <u>Statistical Information</u>. Any third-party statistical and market-related data included in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus are based on or derived from sources that the Company believes to be reliable and accurate in all material respects.

(xxxix) <u>Forward-looking Statements</u>. No forward-looking statement (within the meaning of Section 27A of the Act and Section 21E of the Exchange Act) contained in the Registration Statement, the Time of Sale Disclosure Package or the Prospectus has been made or reaffirmed without a reasonable basis or has been disclosed other than in good faith.

(xl) Regulatory Compliance. The Company and its directors, officers, employees and, to the knowledge of the Company, agents, are, and at all times have been, in compliance with all applicable Health Care Laws, except where failure to be so in compliance would not result in a Material Adverse Effect, and have not engaged in activities which are, as applicable, cause for false claims liability, civil penalties, or mandatory or permissive exclusion from Medicare, Medicaid, or any other state or federal health care program. For purposes of this Agreement, "Health Care Laws" shall mean the federal Anti-kickback Statute (42 U.S.C. § 1320a-7b(b)), the Physician Payment Sunshine Act (42 U.S.C. § 1320a-7h), the civil False Claims Act (31 U.S.C. §§ 3729 et seq.), the criminal False Claims Act (42 U.S.C. § 1320a-7b(a)), all criminal laws relating to health care fraud and abuse, including but not limited to 18 U.S.C. Sections 286 and 287, and the health care fraud criminal provisions under the Health Insurance Portability and Accountability Act of 1996 (42 U.S.C. § 1320d et seq.) ("HIPAA"), the exclusion laws (42 U.S.C. § 1320a-7), the civil monetary penalties law (42 U.S.C. § 1320a-7a), HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act (42 U.S.C. §§ 17921 et seq.), the Federal Food, Drug, and Cosmetic Act (21 U.S.C. §§ 301 et seq.), the Controlled Substances Act (21 U.S.C. §§ 801 et seq.), Medicare (Title XVIII of the Social Security Act), Medicaid (Title XIX of the Social Security Act), the regulations promulgated pursuant to such laws, and any other similar local, state, federal or foreign law. The Company has not received any FDA Form 483, notice of adverse finding, warning letter, untitled letter or other correspondence or notice from the U.S. Food and Drug Administration ("FDA") or any other Governmental Authority alleging or asserting noncompliance with any Health Care Laws applicable to the Company. Additionally, the Company is not a party to or has any ongoing reporting obligations pursuant to any corporate integrity agreements, deferred prosecution agreements, monitoring agreements, consent decrees, settlement orders, plans of correction or similar agreements with or imposed by any Governmental Authority. Neither the Company nor, to the knowledge of the Company, its employees, officers, directors or agents has been excluded, suspended or debarred from participation in any U.S. federal health care program or human clinical research or, to the knowledge of the Company, is subject to a governmental inquiry, investigation, proceeding, or other similar action that could reasonably be expected to result in debarment, suspension, or exclusion.

(xli) <u>Licenses</u>. The Company possesses, and is operating in compliance with the terms of, all certificates, approvals, clearances, exemptions, registrations, franchises, licenses, permits and other authorizations issued by all applicable Governmental Authorities required for the conduct of the business as currently conducted (collectively, "*Licenses*"), including without limitation, all such Licenses required by the FDA or any component thereof, the United States Drug Enforcement Administration and/or by any other U.S., state, local or foreign government or drug or medical device regulatory agency or Governmental Authority (as defined above), except where failure to be so in compliance would not result in a Material Adverse Effect. All such Licenses are in full force and effect. The Company has not received any written notice of proceedings relating to the revocation, termination or modification of any Licenses that, singly or in the aggregate, if determined adversely to the Company, would result in a Material Adverse Effect. To the Company's knowledge, no party granting any such Licenses has taken or intends to take any action to limit, suspend or revoke the same in any material respect.

(xlii) *Clinical Trials*. The preclinical studies and clinical trials conducted by or on behalf of or sponsored by the Company, described in the Prospectus and Preliminary Prospectus, were and, if still pending, are being conducted in all material respects in accordance with the experimental protocols established for each such study or trial and all Licenses and Health Care Laws, including, without limitation, the Federal Food, Drug and Cosmetic Act and its applicable implementing regulations at 21 C.F.R. Parts 50, 54, 56, 58, 312 and 812, except where the failure to be so in compliance has not resulted and would not reasonably be expected to result in a Material Adverse Effect; the descriptions of the results of such studies and trials contained in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus are accurate and complete in all material respects and fairly present the data derived from such studies and trials; except to the extent disclosed in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus, to the Company's knowledge, there are no studies or trials, the results of which are materially inconsistent with or otherwise materially call into question the study and trial results described or referred to in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus; no investigational new drug application or investigational device exemption filed by or on behalf of the Company with the FDA has been terminated or suspended by the FDA, and neither the FDA nor any applicable foreign regulatory agency has commenced, or, to the knowledge of the Company, threatened to initiate, any action to place a clinical hold order on, or otherwise terminate, delay or suspend, any proposed or ongoing clinical investigation conducted or proposed to be conducted by or on behalf of the Company.

(xliii) *Recalls*. The Company has not conducted any recalls, corrections, market withdrawals or replacements, or issued any field notifications, safety alerts or other notices relating to an alleged lack of safety or regulatory compliance of any Company product ("*Safety Notices*"), except where such actions would not, individually or in the aggregate, result in a Material Adverse Effect. The Company has not received any material complaints with respect to any Company product that are currently unresolved. To the Company's knowledge, there are no facts that would be reasonably likely to result in (i) a material Safety Notice with respect to any Company product, (ii) a material change in labeling of any Company product; or (iii) a termination or suspension of marketing or testing of any Company product.

(xliv) *No Rated Debt or Preferred Securities*. There are no debt or preferred securities issued, or guaranteed, by the Company or its subsidiaries that are rated by a "nationally recognized statistical rating organization," as such term is defined in Section 3(a)(62) of the Exchange Act.

(xlv) <u>Corporate Conversion</u>. The Corporate Conversion has been consummated (i) in accordance with the applicable provisions of Delaware law and (ii) as set forth in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus under the heading "Corporate Conversion."

(b) <u>Effect of Certificates</u>. Any certificate signed by any officer of the Company and delivered to you or to counsel for the Underwriters pursuant to this Agreement shall be deemed a representation and warranty by the Company to each Underwriter as to the matters covered thereby.

3. Purchase, Sale and Delivery of Securities.

- (a) <u>Firm Shares</u>. On the basis of the representations, warranties and agreements herein contained, but subject to the terms and conditions herein set forth, the Company agrees to issue and sell the Firm Shares to the several Underwriters, and each Underwriter agrees, severally and not jointly, to purchase from the Company the number of Firm Shares set forth opposite the name of such Underwriter in Schedule I hereto. The purchase price for each Firm Share shall be \$[] per share. The obligation of each Underwriter to the Company shall be to purchase from the Company that number of Firm Shares (to be adjusted by the Representatives to avoid fractional shares) which represents the same proportion of the number of Firm Shares to be sold by the Company pursuant to this Agreement as the number of Firm Shares set forth opposite the name of such Underwriter in Schedule I hereto represents to the total number of Firm Shares to be purchased by all Underwriters pursuant to this Agreement. In making this Agreement, each Underwriter is contracting severally and not jointly; except as provided in paragraph (d) of this Section 3 and in Section 8 hereof, the agreement of each Underwriter is to purchase only the respective number of Firm Shares specified in Schedule I.
- (b) <u>Option Shares</u>. On the basis of the representations, warranties and agreements herein contained, but subject to the terms and conditions herein set forth, the Company hereby grants to the several Underwriters an option to purchase all or any portion of the Option Shares at the same purchase price as the Firm Shares, for use solely in covering any over-allotments made by the Underwriters in the sale and distribution of the Firm Shares. The option granted hereunder may be exercised in whole or in part at any time (but not more than once) within 30 days after the effective date of this Agreement upon notice (confirmed in writing) by the Representatives to the Company setting forth the aggregate number of Option Shares as to which the several Underwriters are exercising the option and the date and time, as determined by you, when the Option Shares are to be delivered, but in no event earlier than the First Closing Date (as defined below) nor earlier than the second business day or later than the tenth business day after the date on which the option shall have been exercised. The number of Option Shares to be purchased by each Underwriter shall be the same percentage of the total number of Option Shares to be purchased by the several Underwriters as the number of Firm Shares to be purchased by the several Underwriters, as adjusted by the Representatives in such manner as the Representatives deem advisable to avoid fractional shares. No Option Shares shall be sold and delivered unless the Firm Shares previously have been, or simultaneously are, sold and delivered.

(c) Payment and Delivery.

(i) The Securities to be purchased by each Underwriter hereunder, in book-entry form in such authorized denominations and registered in such names as Evercore Group L.L.C. may request upon at least forty-eight hours' prior notice to the Company, shall be delivered by or on behalf of the Company to Evercore Group L.L.C.,

through the facilities of the Depository Trust Company ("DTC"), for the account of such Underwriter, with any transfer taxes payable in connection with the transfer of the Securities to the Underwriters duly paid, against payment by or on behalf of such Underwriter of the purchase price therefor by wire transfer of Federal (same-day) funds to the account specified by the Company to Evercore Group L.L.C. at least forty-eight hours in advance. The time and date of such delivery and payment shall be, with respect to the Firm Shares, 9:30 a.m., New York City time, on [], 2018 or such other time and date as Evercore Group L.L.C. and the Company may agree upon in writing, and, with respect to the Option Shares, 9:30 a.m., New York City time, on the date specified by Evercore Group L.L.C. in each written notice given by Evercore Group L.L.C. of the Underwriters' election to purchase such Option Shares, or such other time and date as Evercore Group L.L.C. and the Company may agree upon in writing. Such time and date for delivery of the Firm Shares is herein called the "First Closing Date", each such time and date for delivery of the Option Shares, if not the First Closing Date, is herein called a "Second Closing Date", and each such time and date for delivery is herein called a "Closing".

- (ii) The documents to be delivered at each Closing by or on behalf of the parties hereto pursuant to Section 5 hereof, including the cross receipt for the Securities and any additional documents requested by the Underwriters pursuant to Section 5(j) hereof, will be delivered at the offices of Latham & Watkins LLP, John Hancock Tower, 27th Floor, 200 Clarendon Street, Boston, MA 02116 (the "Closing Location"), and the Securities will be delivered to Evercore Group L.L.C., through the facilities of the DTC, for the account of such Underwriter, all at such Closing. A meeting will be held at the Closing Location at [5:00] p.m., New York City time, on the New York Business Day next preceding such Closing, at which meeting the final drafts of the documents to be delivered pursuant to the preceding sentence will be available for review by the parties hereto. For the purposes of this Section 3, "New York Business Day" shall mean each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in New York City are generally authorized or obligated by law or executive order to close.
- (d) <u>Purchase by Representatives on Behalf of Underwriters</u>. It is understood that you, individually and not as Representatives of the several Underwriters, may (but shall not be obligated to) make payment to the Company, on behalf of any Underwriter for the Securities to be purchased by such Underwriter. Any such payment by you shall not relieve any such Underwriter of any of its obligations hereunder. Nothing herein contained shall constitute any of the Underwriters an unincorporated association or partner with the Company.
 - 4. *Covenants*. The Company covenants and agrees with the several Underwriters as follows:
- (a) <u>Required Filings</u>. The Company will prepare and file a Prospectus with the Commission containing the Rule 430A Information omitted from the Preliminary Prospectus within the time period required by, and otherwise in accordance with the provisions of, Rules 424(b) and 430A of the Rules and Regulations. If the Company has elected to rely upon Rule 462(b) of the Rules and Regulations to increase the size of the offering registered under the

Act and the Rule 462(b) Registration Statement has not yet been filed and become effective, the Company will prepare and file the Rule 462 Registration Statement with the Commission within the time period required by, and otherwise in accordance with the provisions of, Rule 462(b) and the Act. The Company will prepare and file with the Commission, promptly upon your request, any amendments or supplements to the Registration Statement or Prospectus that, in your opinion with the advice of counsel, may be necessary or advisable in connection with the distribution of the Securities by the Underwriters; and the Company will furnish the Representatives and counsel for the Underwriters a copy of any proposed amendment or supplement to the Registration Statement or Prospectus and will not file any amendment or supplement to the Registration Statement or Prospectus to which you shall reasonably object by notice to the Company after having been furnished a copy a reasonable time prior to the filing.

(b) <u>Notification of Certain Commission Actions</u>. The Company will advise you, promptly after it shall receive notice or obtain knowledge thereof, of the issuance by the Commission of any stop order suspending the effectiveness of the Registration Statement, or any post-effective amendment thereto or preventing or suspending the use of any Preliminary Prospectus, the Time of Sale Disclosure Package, the Prospectus or any issuer free writing prospectus, of the suspension of the qualification of the Securities for offering or sale in any jurisdiction, or of the initiation or threatening of any proceeding for any such purpose; and the Company will promptly use its best efforts to prevent the issuance of any stop order or to obtain its withdrawal if such a stop order should be issued.

(c) Continued Compliance with Securities Laws.

(i) Within the time during which a prospectus (assuming the absence of Rule 172 of the Rules and Regulations) relating to the Securities is required to be delivered under the Act by any Underwriter or dealer, the Company will comply with all requirements imposed upon it by the Act, as now and hereafter amended, and by the Rules and Regulations, as from time to time in force, so far as necessary to permit the continuance of sales of or dealings in the Securities as contemplated by the provisions hereof, the Time of Sale Disclosure Package and the Prospectus. If during such period any event occurs as a result of which the Prospectus (or if the Prospectus is not yet available to prospective purchasers, the Time of Sale Disclosure Package) would include an untrue statement of a material fact or omit to state a material fact necessary to make the statements therein, in the light of the circumstances then existing, not misleading, or if during such period it is necessary to amend the Registration Statement or supplement the Prospectus (or if the Prospectus is not yet available to prospective investors, the Time of Sale Disclosure Package) to comply with the Act, the Company will promptly (x) notify you of such untrue statement or omission, (y) amend the Registration Statement or supplement the Prospectus (or, if the Prospectus is not yet available to prospective purchasers, the Time of Sale Disclosure Package) (at the expense of the Company) so as to correct such statement or omission or effect such compliance and (z) notify you when any amendment to the Registration Statement is filed or becomes effective or when any supplement to the Prospectus (or, if the Prospectus is not yet available to prospective purchasers, the Time of Sale Disclosure Package) is filed.

- (ii) If at any time when a prospectus relating to the Securities is required to be delivered under the Act following issuance of an issuer free writing prospectus or Written Testing-the-Waters Communication there occurred or occurs an event or development as a result of which such issuer free writing prospectus or Written Testing-the-Waters Communication conflicted or would conflict with the information contained in the Registration Statement, any Preliminary Prospectus or the Prospectus relating to the Securities or included or would include an untrue statement of a material fact or omitted or would omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances prevailing at that subsequent time, not misleading, the Company (x) has promptly notified or promptly will notify the Representatives of such conflict, untrue statement or omission, (y) has promptly amended or will promptly amend or supplement, at its own expense, such issuer free writing prospectus or Written Testing-the-Waters Communication to eliminate or correct such conflict, untrue statement or omission and (z) has notified or promptly will notify you when such amendment or supplement was or is filed with the Commission to the extent required to be filed by the Rules and Regulations.
- (d) <u>Blue Sky Qualifications</u>. The Company shall take or cause to be taken all necessary action to qualify the Securities for sale under the securities laws of such domestic United States or foreign jurisdictions as you reasonably designate and to continue such qualifications in effect so long as required for the distribution of the Securities, except that the Company shall not be required in connection therewith to qualify as a foreign corporation, subject itself to local taxation, or to execute a general consent to service of process in any state.
- (e) <u>Provision of Documents</u>. The Company will furnish, at its own expense, to the Underwriters and counsel for the Underwriters copies of the Registration Statement (three of which will be signed and will include all consents and exhibits filed therewith), and to the Underwriters and any dealer each Preliminary Prospectus, the Time of Sale Disclosure Package, the Prospectus, any issuer free writing prospectus and all amendments and supplements to such documents, in each case as soon as available and in such quantities as you may from time to time reasonably request.
- (f) <u>Rule 158</u>. The Company will make generally available to its security holders as soon as practicable, but in no event later than 15 months after the end of the Company's current fiscal quarter, an earnings statement (which need not be audited) covering a 12-month period beginning after the effective date of the Registration Statement (which, for purposes of this paragraph, will be deemed to be the effective date of the Rule 462(b) Registration Statement, if applicable) that shall satisfy the provisions of Section 11(a) of the Act and Rule 158 of the Rules and Regulations.
- (g) <u>Payment and Reimbursement of Expenses</u>. The Company, whether or not the transactions contemplated hereunder are consummated or this Agreement is terminated, will pay or cause to be paid (A) all expenses (including transfer taxes allocated to the respective transferees) incurred in connection with the delivery to the Underwriters of the Securities, (B) all expenses and fees (including, without limitation, fees and expenses of the Company's accountants and counsel but, except as otherwise provided below, not including fees of the Underwriters' counsel) in connection with the preparation, printing, filing, delivery, and shipping

of the Registration Statement (including the financial statements therein and all amendments, schedules, and exhibits thereto), the Securities, each Preliminary Prospectus, the Time of Sale Disclosure Package, the Prospectus, any issuer free writing prospectus and any amendment thereof or supplement thereto, and the printing, delivery, and shipping of this Agreement and other underwriting documents, including Blue Sky Memoranda (covering the states and other applicable jurisdictions), (C) all filing fees and reasonable and documented fees and disbursements of the Underwriters' counsel incurred in connection with the qualification of the Securities for offering and sale by the Underwriters or by dealers under the securities or blue sky laws of the states and other jurisdictions which you shall designate, (D) the fees and expenses of the Custodian and any transfer agent or registrar, (E) the filing fees and reasonable and documented fees and disbursements of Underwriters' counsel incident to any required review and approval by FINRA of the terms of the sale of the Securities, (F) listing fees, if any, (G) the cost and expenses of the Company relating to investor presentations or any "road show" undertaken in connection with marketing of the Securities, including, without limitation, expenses associated with the preparation or dissemination of any electronic road show, expenses associated with the production of road show slides and graphics, fees and expenses of any consultants engaged in connection with the road show presentations with the prior approval of the Company, travel and lodging expenses of the representatives and officers of the Company and any such consultants, and 50% of the cost of any aircraft chartered in connection with the road show, and (H) all other costs and expenses of the Company incident to the performance of its obligations hereunder that are not otherwise specifically provided for herein; provided that in the case of clauses (C) and (E), the Company shall not be obligated to reimburse fees and expenses of counsel for the Underwriters in excess of \$10,000 and \$35,000, respectively. If this Agreement is terminated by the Representatives pursuant to Section 9 hereof or if the sale of the Securities provided for herein is not consummated by reason of any failure, refusal or inability on the part of the Company to perform any agreement on its part to be performed, or because any other condition of the Underwriters' obligations hereunder required to be fulfilled by the Company is not fulfilled, the Company will reimburse the several Underwriters for all reasonable, documented out-of-pocket accountable disbursements (including but not limited to reasonable, documented fees and disbursements of counsel, printing expenses, travel expenses, postage, facsimile and telephone charges subject to the limitations set forth above) incurred by the Underwriters in connection with their investigation, preparing to market and marketing the Securities or in contemplation of performing their obligations hereunder. It is understood, however, that except as otherwise explicitly set forth in this Section 4(g), the Underwriters shall pay all of their own costs and expenses, including any travel, lodging and other expenses of the Underwriters or any of their employees or representatives incurred by them in connection with any road show and any travel and lodging expenses incurred in connection with drafting sessions and other meetings.

(h) <u>Use of Proceeds</u>. The Company will apply the net proceeds from the sale of the Securities to be sold by it hereunder for the purposes set forth in the Time of Sale Disclosure Package and in the Prospectus and will file such reports with the Commission with respect to the sale of the Securities and the application of the proceeds therefrom as may be required in accordance with Rule 463 of the Rules and Regulations.

(i) Company Lock Up. The Company will not, without the prior written consent of Evercore Group L.L.C., from the date of execution of this Agreement and continuing to and including the date 180 days after the date of the Prospectus (the "Lock-Up Period"), (A) offer, pledge, announce the intention to sell, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase or otherwise transfer or dispose of, directly or indirectly, any shares of Common Stock or any securities convertible into or exercisable or exchangeable for Common Stock or (B) enter into any swap or other agreement that transfers, in whole or in part, any of the economic consequences of ownership of the Common Stock, whether any such transaction described in clause (A) or (B) above is to be settled by delivery of Common Stock or such other securities, in cash or otherwise, except (i) to the Underwriters pursuant to this Agreement; (ii) the issuance by the Company of shares of Common Stock to pay the accrued but unpaid preferred return to holders of Series A Preferred Units of ElectroCore LLC as described in the Time of Sale Disclosure Package and in the Prospectus; (iii) the issuance by the Company of shares of Common Stock upon the exercise of any stock options or warrants, or upon the conversion of any shares of preferred stock of the Company, outstanding as of the date hereof and disclosed in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus; (iv) the issuance by the Company of shares of Common Stock or securities convertible into shares of Common Stock pursuant to the Company's equity incentive plans in effect on the date hereof and described in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus; provided that prior to the issuance of any such shares of Common Stock or securities convertible into shares of Common Stock where such shares or securities vest within the Lock-Up Period, the Company shall cause each recipient of such grant or issuance to execute and deliver to you a lock-up agreement substantially in the form of Exhibit A hereto (a "Lock-Up Agreement") and issue stop order restrictions to its transfer agent and registrar for the Common Stock with respect to any transaction or contemplated transaction that would constitute a breach or default under the applicable Lock-Up Agreement; (v) the filing of a registration statement on Form S-8 with respect to the Company's equity incentive plans in effect on the date hereof and described in the Registration Statement, the Time of Sale Disclosure Package and the Prospectus; and (vi) the sale or issuance of or entry into an agreement providing for the issuance of shares of Common Stock, or any security convertible into or exercisable for shares of Common Stock, in connection with the acquisition by the Company of the securities, business or assets of another person or entity or pursuant to an employee benefit plan assumed by the Company in connection with such acquisition, or in connection with joint ventures, commercial relationships or other strategic transactions; provided, that the aggregate number of shares of Common Stock that the Company may sell or issue or agree to sell or issue pursuant to this clause (vi) shall not exceed 5% of the total number of shares of Common Stock issued and outstanding immediately following the completion of the transactions contemplated by this Agreement, and provided further, that the Company shall cause each recipient of such shares or other securities to execute and deliver to you, on or prior to such issuance, a Lock-Up Agreement and issue stop order restrictions to its transfer agent and registrar for the Common Stock with respect to any transaction or contemplated transaction that would constitute a breach of or default under the applicable Lock-Up Agreement. The Company agrees not to accelerate the vesting of any option or warrant or the lapse of any repurchase right prior to the expiration of the Lock-Up Period.

(j) <u>Stockholder Lock-Ups</u>. The Company has caused to be delivered to you prior to the date of this Agreement a Lock-Up Agreement, from each individual or entity listed on Schedule II. The Company will enforce the terms of each Lock-Up Agreement and issue stop-transfer instructions to its transfer agent and registrar for the Common Stock with respect to

any transaction or contemplated transaction that would constitute a breach of or default under the applicable Lock-Up Agreement. If Evercore Group L.L.C., in its sole discretion, agrees to release or waive the restrictions of any Lock-Up Agreement between an officer or director of the Company and the Representatives and provides the Company with notice of the impending release or waiver at least three business days before the effective date of such release or waiver, the Company agrees to announce the impending release or waiver by means of a press release substantially in the form of Exhibit B hereto, issued through a major news service, at least two business days before the effective date of the release or waiver.

- (k) <u>No Market Stabilization or Manipulation</u>. The Company has not taken and will not take, directly or indirectly, any action designed to or which might reasonably be expected to cause or result in, or which has constituted, the stabilization or manipulation of the price of any security of the Company to facilitate the sale or resale of the Securities, and has not effected any sales of Common Stock which are required to be disclosed in response to Item 701 of Regulation S-K under the Act which have not been so disclosed in the Registration Statement.
- (l) <u>SEC Reports</u>. The Company will file on a timely basis with the Commission such periodic and current reports as required by the Rules and Regulations for so long as a prospectus relating to the Securities is required to be delivered under the Act.
- (m) <u>Free Writing Prospectuses</u>. The Company represents and agrees that, unless it obtains the prior written consent of Evercore Group L.L.C., and each Underwriter severally represents and agrees that, unless it obtains the prior written consent of the Company and Evercore Group L.L.C., it has not made and will not make any offer relating to the Securities that would constitute an issuer free writing prospectus or that would otherwise constitute a free writing prospectus required to be filed with the Commission; provided that the prior written consent of the parties hereto shall be deemed to have been given in respect of the free writing prospectuses included in Schedule III. Any such free writing prospectus consented to by the Company and Evercore Group L.L.C. is hereinafter referred to as a "Permitted Free Writing Prospectus." The Company represents that it has treated or agrees that it will treat each Permitted Free Writing Prospectus, and has complied and will comply with the requirements of Rules 164 and 433 of the Rules and Regulations applicable to any Permitted Free Writing Prospectus. The Company represents that it has satisfied and agrees that it will satisfy the conditions in Rule 433 to avoid a requirement to file with the Commission any electronic road show. Each Underwriter severally represents and agrees that, (A) unless it obtains the prior written consent of the Company and Evercore Group L.L.C., it has not distributed, and will not distribute any Written Testing-the-Waters Communication other than those listed on Schedule V, and (B) any Testing-the-Waters Communication undertaken by it was with entities that are qualified institutional buyers with the meaning of Rule 144A under the Act or institutions that are accredited investors within the meaning of Rule 501 under the Act.
- (n) <u>Emerging Growth Company</u>. The Company will promptly notify the Representatives if the Company ceases to be an Emerging Growth Company at any time prior to the later of (A) completion of the distribution of Securities within the meaning of the Act and (B) completion of the Lock-Up Period.

- 5. *Conditions of Underwriters' Obligations*. The obligations of the several Underwriters hereunder are subject to the accuracy, as of the date hereof and at each of the First Closing Date and the Second Closing Date (as if made at such Closing Date), of and compliance with all representations, warranties and agreements of the Company contained herein, to the performance by the Company of its obligations hereunder and to the following additional conditions:
- (a) <u>Required Filings</u>; <u>Absence of Certain Commission Actions</u>. All filings required by Rules 424, 430A and 433 of the Rules and Regulations shall have been timely made (without reliance on Rule 424(b)(8) or Rule 164(b)); no stop order suspending the effectiveness of the Registration Statement or any part thereof or any amendment thereof, nor suspending or preventing the use of the Time of Sale Disclosure Package, the Prospectus or any issuer free writing prospectus shall have been instituted or threatened; and any request of the Commission for additional information (to be included in the Registration Statement, the Time of Sale Disclosure Package, the Prospectus, any issuer free writing prospectus or otherwise) shall have been complied with to your reasonable satisfaction.
- (b) <u>Continued Compliance with Securities Laws</u>. No Underwriter shall have advised the Company that (i) the Registration Statement or any amendment thereof or supplement thereto contains an untrue statement of a material fact which, in your opinion, is material or omits to state a material fact which, in your opinion, is required to be stated therein or necessary to make the statements therein not misleading, or (ii) the Time of Sale Disclosure Package or the Prospectus, or any amendment thereof or supplement thereto, or any issuer free writing prospectus contains an untrue statement of fact which, in your opinion, is material, or omits to state a fact which, in your opinion, is material and is required to be stated therein, or necessary to make the statements therein, in light of the circumstances under which they are made, not misleading.
- (c) <u>Absence of Certain Events</u>. Except as contemplated in the Time of Sale Disclosure Package and in the Prospectus, subsequent to the respective dates as of which information is given in the Time of Sale Disclosure Package and the Prospectus, neither the Company nor any of its subsidiaries shall have incurred any material liabilities or obligations, direct or contingent, or entered into any material transactions, or declared or paid any dividends or made any distribution of any kind with respect to its capital stock; and there shall not have been any change in the capital stock, or any material change in the short-term or long-term debt of the Company (other than as a result of the conversion of convertible securities), or any issuance of options, warrants, convertible securities or other rights to purchase the capital stock of the Company or any of its subsidiaries, or any Material Adverse Change or any development involving a prospective Material Adverse Change (whether or not arising in the ordinary course of business), that, in your judgment, makes it impractical or inadvisable to offer or deliver the Securities on the terms and in the manner contemplated in the Time of Sale Disclosure Package and in the Prospectus.
- (d) <u>Opinion of Company Counsel</u>. On each Closing Date, there shall have been furnished to you, as Representatives of the several Underwriters, the opinion of Dentons US LLP, corporate and intellectual property counsel for the Company, dated such Closing Date and addressed to you in form and substance satisfactory to the Representatives and previously agreed upon with counsel to the Representatives.

- (e) <u>Opinion of Company Regulatory Counsel</u>. On each Closing Date, there shall have been furnished to you, as Representatives of the several Underwriters, the opinion of Hogan Lovells US LLP, regulatory counsel for the Company, dated such Closing Date and addressed to you in form and substance satisfactory to the Representatives and previously agreed upon with counsel to the Representatives.
- (f) <u>Opinion of Underwriters' Counsel</u>. On each Closing Date, there shall have been furnished to you, as Representatives of the several Underwriters, such opinion or opinions from Latham & Watkins LLP, counsel for the several Underwriters, dated such Closing Date and addressed to you, with respect to the formation of the Company, the validity of the Securities, the Registration Statement, the Time of Sale Disclosure Package or the Prospectus and other related matters as you reasonably may request, and such counsel shall have received such papers and information as they request to enable them to pass upon such matters.
- (g) <u>Comfort Letter</u>. On the date hereof, on the effective date of any post-effective amendment to the Registration Statement filed after the date hereof and on each Closing Date you, as Representatives of the several Underwriters, shall have received a letter of KPMG LLP, dated such date and addressed to you, in form and substance satisfactory to you.
- (h) <u>Officers' Certificate</u>. On each Closing Date, there shall have been furnished to you, as Representatives of the Underwriters, a certificate, dated such Closing Date and addressed to you, signed by the chief executive officer and by the chief financial officer of the Company, to the effect that:
 - (i) The representations and warranties of the Company in this Agreement are true and correct as if made at and as of such Closing Date, and the Company has complied with all the agreements and satisfied all the conditions on its part to be performed or satisfied at or prior to such Closing Date; and
 - (ii) No stop order or other order suspending the effectiveness of the Registration Statement or any part thereof or any amendment thereof or the qualification of the Securities for offering or sale, nor suspending or preventing the use of the Time of Sale Disclosure Package, the Prospectus or any issuer free writing prospectus, has been issued, and no proceeding for that purpose has been instituted or, to the best of their knowledge, is contemplated by the Commission or any state or regulatory body.
- (i) <u>Lock-Up Agreement</u>. The Underwriters shall have received all of the Lock-Up Agreements referenced in Section 4 and the Lock-Up Agreements shall remain in full force and effect.
- (j) <u>Other Documents</u>. The Company shall have furnished to you and counsel for the Underwriters such additional documents, certificates and evidence as you or they may have reasonably requested, including satisfactory evidence that the Corporate Conversion has been consummated.

- (k) FINRA No Objections. FINRA shall have raised no objection to the fairness and reasonableness of the underwriting terms and arrangements.
- (l) <u>Exchange Listing</u>. The Securities to be delivered on such Closing Date will have been approved for listing on Nasdaq, subject to official notice of issuance.
- (m) [*CFO Certificate*. On the date hereof and on each of the First Closing Date and the Second Closing Date, as applicable, the Company shall have furnished to the Representatives a certificate, dated as of such date, signed on behalf of the Company by its Chief Financial Officer, regarding certain financial information set forth in the Preliminary Prospectus and the Prospectus, respectively, in form and substance satisfactory to the Underwriters.]¹

All such opinions, certificates, letters and other documents will be in compliance with the provisions hereof only if they are reasonably satisfactory in form and substance to you and counsel for the Underwriters. The Company will furnish you with such conformed copies of such opinions, certificates, letters and other documents as you shall reasonably request.

6. Indemnification and Contribution.

(a) Indemnification by the Company. The Company agrees to indemnify and hold harmless each Underwriter, its affiliates, directors and officers and each person, if any, who controls such Underwriter within the meaning of Section 15 of the Act or Section 20 of the Exchange Act, from and against any losses, claims, damages or liabilities, joint or several, to which such Underwriter may become subject, under the Act or otherwise (including in settlement of any litigation if such settlement is effected with the written consent of the Company), insofar as such losses, claims, damages or liabilities (or actions in respect thereof) (i) arise out of or are based upon an untrue statement or alleged untrue statement of a material fact contained in the Registration Statement, including the 430A Information and any other information deemed to be a part of the Registration Statement at the time of effectiveness and at any subsequent time pursuant to the Rules and Regulations, if applicable, any Preliminary Prospectus, the Time of Sale Disclosure Package, the Prospectus, or any amendment or supplement thereto, any issuer free writing prospectus, any issuer information that the Company has filed or is required to file pursuant to Rule 433(d) of the Rules and Regulations, or any Written Testing-the-Waters Communication, or any road show as defined in Rule 433(h) under the Act (a "road show"), or (ii) arise out of or are based upon the omission or alleged omission to state therein a material fact required to be stated therein or necessary to make the statements therein not misleading, and will reimburse each Underwriter for any legal or other expenses reasonably incurred by it in connection with investigating or defending against such loss, claim, damage, liability or action as such expenses are incurred; provided, however, that the Company will not be liable in any such case to the extent that any such loss, claim, damage, liability or action arises out of or is based upon an untrue statement or alleged untrue statement or omission or alleged omission made in reliance upon and in conformity with written information furnished to the Company by you, or by any Underwriter through you, specifically for use in the preparation thereof; it being understood and agreed that the only information furnished by an Underwriter consists of the information described as such in Section 6(e).

¹ NTD: if applicable. TBD.

(b) <u>Indemnification by the Underwriters</u>. Each Underwriter will, severally and not jointly, indemnify and hold harmless the Company, its affiliates, directors and officers and each person, if any, who controls the Company within the meaning of Section 15 of the Act and Section 20 of the Exchange Act, from and against any losses, claims, damages or liabilities to which the Company may become subject, under the Act or otherwise (including in settlement of any litigation, if such settlement is effected with the written consent of such Underwriter), insofar as such losses, claims, damages or liabilities (or actions in respect thereof) (i) arise out of or are based upon an untrue statement or alleged untrue statement of a material fact contained in the Registration Statement, any Preliminary Prospectus, the Time of Sale Disclosure Package, the Prospectus, or any amendment or supplement thereto, any issuer free writing prospectus, any issuer information that the Company has filed or is required to file pursuant to Rule 433(d) of the Rules and Regulations, or any Written Testing-the-Waters Communication, or any road show, or (ii) arise out of or are based upon the omission or alleged omission to state therein a material fact required to be stated therein or necessary to make the statements therein not misleading, in each case to the extent, but only to the extent, that such untrue statement or alleged untrue statement or omission or alleged omission was made in conformity with written information furnished to the Company by you, or by such Underwriter through you, specifically for use in the preparation thereof (it being understood and agreed that the only information furnished by an Underwriter consists of the information described as such in Section 6(e)), and will reimburse the Company for any legal or other expenses reasonably incurred by the Company in connection with investigating or defending against any such loss, claim, damage, liability or action as such expenses are incurred.

(c) *Notice and Procedures*. Promptly after receipt by an indemnified party under subsection (a) or (b) above of notice of the commencement of any action, such indemnified party shall, if a claim in respect thereof is to be made against the indemnifying party under such subsection, notify the indemnifying party in writing of the commencement thereof; but the omission so to notify the indemnifying party shall not relieve the indemnifying party from any liability that it may have to any indemnified party except to the extent such indemnifying party has been materially prejudiced by such failure (through the forfeiture of substantive rights or defenses). In case any such action shall be brought against any indemnified party, and it shall notify the indemnifying party of the commencement thereof, the indemnifying party shall be entitled to participate in, and, to the extent that it shall wish, jointly with any other indemnifying party similarly notified, to assume the defense thereof, with counsel reasonably satisfactory to such indemnified party, and after notice from the indemnifying party to such indemnified party of the indemnifying party's election so to assume the defense thereof, the indemnifying party shall not be liable to such indemnified party under such subsection for any legal or other expenses subsequently incurred by such indemnified party in connection with the defense thereof other than reasonable costs of investigation; provided, however, that if, in the sole judgment of the Representatives, it is advisable for the Underwriters to be represented as a group by separate counsel, the Representatives shall have the right to employ a single counsel (in addition to local counsel) to represent the Representatives and all Underwriters who may be subject to liability arising from any claim in respect of which indemnity may be sought by the Underwriters under subsection (a) of this Section 6, in which event the reasonable fees and

expenses of such separate counsel shall be borne by the indemnifying party or parties and reimbursed to the Underwriters as incurred. An indemnifying party shall not be obligated under any settlement agreement relating to any action under this Section 6 to which it has not agreed in writing. In addition, no indemnifying party shall, without the prior written consent of the indemnified party (which consent shall not be unreasonably withheld or delayed) effect any settlement of any pending or threatened proceeding unless such settlement includes an unconditional release of such indemnified party for all liability on claims that are the subject matter of such proceeding and does not include a statement as to, or an admission of, fault, culpability or a failure to act by or on behalf of an indemnified party. Notwithstanding the foregoing, if at any time an indemnified party shall have requested an indemnifying party to reimburse the indemnified party for fees and expenses of counsel pursuant to this Section 6(c), such indemnifying party agrees that it shall be liable for any settlement effected without its written consent if (i) such settlement is entered into more than 45 days after receipt by such indemnifying party of the aforesaid request and (ii) such indemnifying party shall not have reimbursed such indemnified party in accordance with such request prior to the date of such settlement.

(d) Contribution; Limitations on Liability; Non-Exclusive Remedy. If the indemnification provided for in this Section 6 is unavailable or insufficient to hold harmless an indemnified party under subsection (a) or (b) above, then each indemnifying party shall contribute to the amount paid or payable by such indemnified party as a result of the losses, claims, damages or liabilities referred to in subsection (a) or (b) above, (i) in such proportion as is appropriate to reflect the relative benefits received by the Company on the one hand and the Underwriters on the other from the offering of the Securities or (ii) if the allocation provided by clause (i) above is not permitted by applicable law, in such proportion as is appropriate to reflect not only the relative benefits referred to in clause (i) above but also the relative fault of the Company on the one hand and the Underwriters on the other in connection with the statements or omissions that resulted in such losses, claims, damages or liabilities, as well as any other relevant equitable considerations. The relative benefits received by the Company on the one hand and the Underwriters on the other shall be deemed to be in the same proportion as the total net proceeds from the offering (before deducting expenses) received by the Company bear to the total underwriting discounts and commissions received by the Underwriters, in each case as set forth in the table on the cover page of the Prospectus. The relative fault shall be determined by reference to, among other things, whether the untrue or alleged untrue statement of a material fact or the omission or alleged omission to state a material fact relates to information supplied by the Company or the Underwriters and the parties' relative intent, knowledge, access to information and opportunity to correct or prevent such untrue statement or omission. The Company and the Underwriters agree that it would not be just and equitable if contributions pursuant to this subsection (d) were to be determined by pro rata allocation (even if the Underwriters were treated as one entity for such purpose) or by any other method of allocation which does not take account of the equitable considerations referred to in the first sentence of this subsection (d). The amount paid by an indemnified party as a result of the losses, claims, damages or liabilities referred to in the first sentence of this subsection (d) shall be deemed to include any legal or other expenses reasonably incurred by such indemnified party in connection with investigating or defending against any action or claim which is the subject of this subsection (d). Notwithstanding the provisions of this subsection (d), no Underwriter shall be required to contribute any amount in excess of the amount by which the total underwriting

discounts and commissions received by such Underwriter with respect to the Securities exceeds the amount of any damages that such Underwriter has otherwise been required to pay by reason of such untrue or alleged untrue statement or omission or alleged omission. No person guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the Act) shall be entitled to contribution from any person who was not guilty of such fraudulent misrepresentation. The Underwriters' obligations in this subsection (d) to contribute are several in proportion to their respective underwriting obligations and not joint. The remedies provided for in this Section 6 are not exclusive and shall not limit any rights or remedies that might otherwise be available to any indemnified party at law or in equity.

- (e) <u>Information Provided by the Underwriters</u>. The Underwriters severally confirm and the Company acknowledges that the concession figure and the information concerning sales to discretionary accounts appearing under the sub-caption "Discounts and Commissions" under the caption "Underwriting," the information regarding stabilizing transactions and passive market making contained under the sub-caption "Price Stabilization, Short Positions and Penalty Bids" under the caption "Underwriting" and the information regarding internet distribution contained under the sub-caption "Electronic Offer, Sale and Distribution of Shares" under the caption "Underwriting," in the Time of Sale Disclosure Package and in the Prospectus are correct and constitute the only information concerning such Underwriters furnished in writing to the Company by or on behalf of the Underwriters specifically for inclusion in the Registration Statement, any Preliminary Prospectus, the Time of Sale Disclosure Package, the Prospectus or any issuer free writing prospectus.
- 7. **Representations and Agreements to Survive Delivery**. All representations, warranties, and agreements of the Company herein or in certificates delivered pursuant hereto, and the agreements of the several Underwriters and the Company contained in Section 6 hereof, shall remain operative and in full force and effect regardless of any investigation made by or on behalf of any Underwriter or any controlling person thereof, or the Company or any of its officers, directors, or controlling persons, and shall survive delivery of, and payment for, the Securities to and by the Underwriters hereunder and any termination of this Agreement.

8. Substitution of Underwriters.

- (a) <u>Obligation to Purchase Under Certain Circumstances</u>. If any Underwriter or Underwriters shall fail to take up and pay for the amount of Firm Shares agreed by such Underwriter or Underwriters to be purchased hereunder, upon tender of such Firm Shares in accordance with the terms hereof, and the amount of Firm Shares not purchased does not aggregate more than 10% of the total amount of Firm Shares set forth in Schedule I hereto, the remaining Underwriters shall be obligated to take up and pay for (in proportion to their respective underwriting obligations hereunder as set forth in Schedule I hereto except as may otherwise be determined by you) the Firm Shares that the withdrawing or defaulting Underwriters agreed but failed to purchase.
- (b) <u>Termination Under Certain Circumstances</u>. If any Underwriter or Underwriters shall fail to take up and pay for the amount of Firm Shares agreed by such Underwriter or Underwriters to be purchased hereunder, upon tender of such Firm Shares in accordance with the terms hereof, and the amount of Firm Shares not purchased aggregates more

than 10% of the total amount of Firm Shares set forth in Schedule I hereto, and arrangements satisfactory to you for the purchase of such Firm Shares by other persons are not made within 36 hours thereafter, this Agreement shall terminate. In the event of any such termination the Company shall not have any liability to any Underwriter (except to the extent provided in Section 4(g) and Section 6 hereof) nor shall any Underwriter (other than an Underwriter who shall have failed, otherwise than for some reason permitted under this Agreement, to purchase the amount of Firm Shares agreed by such Underwriter to be purchased hereunder) be under any liability to the Company (except to the extent provided in Section 6 hereof).

- (c) <u>Postponement of Closing</u>. If Firm Shares to which a default relates are to be purchased by the non-defaulting Underwriters or by any other party or parties, the Representatives or the Company shall have the right to postpone the First Closing Date for not more than seven business days in order that the necessary changes in the Registration Statement, in the Time of Sale Disclosure Package, in the Prospectus or in any other documents, as well as any other arrangements, may be effected. As used herein, the term "Underwriter" includes any person substituted for an Underwriter under this Section 8.
- (d) <u>No Relief from Liability</u>. No action taken pursuant to this Section shall relieve any defaulting Underwriter from liability, if any, in respect of such default.

9. Termination.

- (a) <u>Right to Terminate</u>. You, as Representatives of the several Underwriters, shall have the right to terminate this Agreement by giving notice as hereinafter specified at any time at or prior to the First Closing Date, and the option referred to in Section 3(b), if exercised, may be cancelled at any time prior to the Second Closing Date, if (i) the Company shall have failed, refused or been unable, at or prior to such Closing Date, to perform any agreement on its part to be performed hereunder, (ii) any other condition of the Underwriters' obligations hereunder is not fulfilled, (iii) trading on the Nasdaq Stock Market or New York Stock Exchange shall have been fixed, or maximum ranges for prices for securities shall have been required, on the Nasdaq Stock Market or New York Stock Exchange, by such Exchange or by order of the Commission or any other Governmental Authority, (v) a banking moratorium shall have been declared by federal or state authorities, or (vi) there shall have occurred any outbreak or escalation of hostilities or any change in financial markets or any calamity or crisis that, in your judgment, is material and adverse and makes it impractical or inadvisable to proceed with the completion of the sale of and payment for the Securities. Any such termination shall be without liability of any party to any other party except that the provisions of Section 4(g) and Section 6 hereof shall at all times be effective.
- (b) *Notice of Termination*. If you elect to terminate this Agreement as provided in this Section, the Company shall be notified promptly by you by telephone, confirmed by letter.

- 10. *Notices*. Except as otherwise provided herein, all communications hereunder shall be in writing and, if to the Underwriters, shall be mailed via overnight delivery service or hand delivered via courier, to the Representatives c/o Evercore Group L.L.C., 55 East 52nd Street New York, New York 10055, Attention: Equity Capital Markets; (ii) if to the Company, shall be mailed or delivered to it at electroCore, Inc., 150 Allen Road, Suite 201, Basking Ridge, New Jersey 07920, Attention: Chief Executive Officer; or in each case to such other address as the person to be notified may have requested in writing. Any party to this Agreement may change such address for notices by sending to the parties to this Agreement written notice of a new address for such purpose.
- 11. **Persons Entitled to Benefit of Agreement**. This Agreement shall inure to the benefit of and be binding upon the parties hereto and their respective successors and assigns and the controlling persons, officers and directors referred to in Section 6. Nothing in this Agreement is intended or shall be construed to give to any other person, firm or corporation any legal or equitable remedy or claim under or in respect of this Agreement or any provision herein contained. The term "successors and assigns" as herein used shall not include any purchaser, as such purchaser, of any of the Securities from any of the several Underwriters.
- 12. Absence of Fiduciary Relationship. The Company acknowledges and agrees that: (a) the Representatives have been retained solely to act as underwriters in connection with the sale of the Securities and that no fiduciary, advisory or agency relationship between the Company and the Representatives has been created in respect of any of the transactions contemplated by this Agreement, irrespective of whether the Representatives have advised or are advising the Company on other matters; (b) the price and other terms of the Securities set forth in this Agreement were established by the Company following discussions and arms-length negotiations with the Representatives and the Company is capable of evaluating and understanding and understands and accepts the terms, risks and conditions of the transactions contemplated by this Agreement; (c) it has been advised that the Representatives and their affiliates are engaged in a broad range of transactions which may involve interests that differ from those of the Company and that the Representatives have no obligation to disclose such interest and transactions to the Company by virtue of any fiduciary, advisory or agency relationship; (d) it has been advised that the Representatives are acting, in respect of the transactions contemplated by this Agreement, solely for the benefit of the Representatives and the other Underwriters, and not on behalf of the Company; (e) it, he or she waives to the fullest extent permitted by law, any claims it may have against the Representatives for breach of fiduciary duty or alleged breach of fiduciary duty in respect of any of the transactions contemplated by this Agreement and agrees that the Representatives shall have no liability (whether direct or indirect) to the Company in respect of such a fiduciary duty claim on behalf of or in right of the Company, including stockholders, employees or creditors of the Company.
- 13. *Governing Law; Waiver of Jury Trial*. This Agreement shall be governed by and construed in accordance with the laws of the State of New York. The Company (on its behalf and, to the extent permitted by applicable law, on behalf of its stockholders and affiliates), and each of the Underwriters hereby irrevocably waives, to the fullest extent permitted by applicable law, any and all right to trial by jury in any legal proceeding arising out of or relating to this Agreement or the transactions contemplated hereby.
- 14. *Counterparts*. This Agreement may be executed in one or more counterparts and, if executed in more than one counterpart, the executed counterparts shall each be deemed to be an original and all such counterparts shall together constitute one and the same instrument.

15. *General Provisions*. This Agreement constitutes the entire agreement of the parties to this Agreement and supersedes all prior written or oral and all contemporaneous oral agreements, understandings and negotiations with respect to the subject matter hereof. This Agreement may not be amended or modified unless in writing by all of the parties hereto, and no condition herein (express or implied) may be waived unless waived in writing by each party whom the condition is meant to benefit. The Section headings herein are for the convenience of the parties only and shall not affect the construction or interpretation of this Agreement.

[Signature Pages Follow]

Please sign and return to the Company the enclosed duplicates of this Agreement where the Company and the several Underwriters in accordance with its terms.	eupon this Agreement will become a binding agreement between
	Very truly yours,
	electroCore, Inc.
	Ву
	Name: Title:

Confirmed as of the date first above mentioned, on behalf of themselves and the other several Underwriters named in Schedule I hereto. EVERCORE GROUP L.L.C.
EVERCORE GROUP L.L.C.
By
Name:
Title: Managing Director
CANTOR FITZGERALD & CO.
Ву
Name:
Title: Managing Director
JMP SECURITIES LLC
JIII OLGORITLO LLC
Ву
Name:
Title: Managing Director

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Underwriter	Number of Firm Shares (1)
Underwriter Evercore Group L.L.C.	
Cantor Fitzgerald & Co.	[]
JMP Securities LLC	[]
BTIG, LLC	
Total	[]

⁽¹⁾ The Underwriters may purchase up to an additional [] Option Shares, to the extent the option described in Section 3(b) of the Agreement is exercised, in the proportions and in the manner described in the Agreement.

SCHEDULE II

List of Individuals and Entities Executing Lock-Up Agreements

Officers

Bruce J. Simon, Ph.D. Eric J. Liebler

Francis R. Amato

Glenn S. Vraniak

Joseph P. Errico

Michael Romaniw

Peter S. Staats, M.D.

Roland D. Duhart

Steven M. Mendez

Other Current Employees

[Names omitted]

Non-Employee Directors

Carrie S. Cox David M. Rubin, Ph.D. James L.L. Tullis Michael W. Ross Michael G. Atieh Nicholas Colucci Thomas J. Errico, M.D.

Stockholders2

Trevor J. Moody

American Investment Holdings LLC
Bill Cerullo
Brent Saunders
Conure ElectroCore
Core Ventures 2010 LLC
Core Ventures II LLC
Dr. Nancy Staats/Prand Enterprises LP
ECNG LLC

2010 Core Investment Partners

The names of holders of less than 1% of a class of security have been omitted.

IC-1

IC-2

IC-4

James Tullis Irr. Trust FBO Elizabeth Tullis James Tullis Irr. Trust FBO John L Tullis

James Tullis Irr. Trust FBO Sara Tullis Wester

John F. Welch, Jr. 2004 Rev Trust

Kathryn K. Theofilos. Esq/ Charles Theofilos

Kenneth Langone

Linda Tullis

Linda Tullis Family Trust

Merck Global Health Innovation, LLC

Michael Stansky

NeuroCore Investment Partners

Paulson Electrocore Investments, LLC

Paulson Investment Company LLC

Reese Terry

Skyview Investments LLC

The Errico 2010 Dynasty Trust

The Thomas J Errico 2010 Family Trust

Tullis Opportunity Fund II LP Vinik Family Foundation

SCHEDULE III

Certain Permitted Free Writing Prospectuses

1.[]

SCHEDULE IV

Pricing Information

Number of Firm Shares: []	
Price per Share to the public: \$[]
Number of Option Shares: []	

SCHEDULE V

Written Testing-the-Waters Communications

1. Testing the Waters Communication dated March 19, 2018.

SCHEDULE VI

Subsidiaries

electroCore Bermuda, Ltd. electroCore Germany GmbH electroCore UK Ltd.

A-1

EXHIBIT A

Form of Lock-Up Agreement

[], 2018

Evercore Group L.L.C.
Cantor Fitzgerald & Co.
JMP Securities LLC
As representatives of the underwriters named in Schedule I to the Purchase Agreement referred to below

- c/o Evercore Group L.L.C. 55 East 52nd Street New York, New York 10055
- c/o Cantor Fitzgerald & Co. 499 Park Avenue New York, NY 10022
- c/o JMP Securities LLC 600 Montgomery Street, Suite 1100 San Francisco, CA 94111

Dear Sirs:

As an inducement to the underwriters (the "Underwriters") to execute a purchase agreement (the "Purchase Agreement") providing for a public offering (the "Offering") of common stock (the "Common Stock"), of ElectroCore, LLC and any successor (by merger or otherwise) thereto (the "Company"), the undersigned hereby agrees that without, in each case, the prior written consent of Evercore Group L.L.C. (the "Representative") during the period specified in the second succeeding paragraph (the "Lock-Up Period"), the undersigned will not: (1) offer, pledge, announce the intention to sell, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, make any short sale or otherwise transfer or dispose of, directly or indirectly, any shares of Common Stock or any securities convertible into, exercisable or exchangeable for or that represent the right to receive Common Stock (including without limitation, Common Stock which may be deemed to be beneficially owned by the undersigned in accordance with the rules and regulations of the Securities and Exchange Commission and securities which may be issued upon exercise of a stock option or warrant) whether now owned or hereafter acquired (the "Undersigned's Securities"); (2) enter into any swap or other agreement that transfers, in whole or in part, any of the economic consequences of ownership of the Undersigned's Securities, whether any such transaction described in clause (1) or (2) above is to be settled by delivery of Common Stock or such other securities, in cash or otherwise; (3) make any demand for or exercise any right with respect to, the registration of any Common Stock or any security convertible into or exercisable or exchangeable for Common Stock; or (4) publicly disclose the intention to do any of the foregoing.

The undersigned agrees that the foregoing restrictions preclude the undersigned from engaging in any hedging or other transaction which is designed to or which reasonably could be expected to lead to or result in a sale or disposition of the Undersigned's Securities even if such securities would be disposed of by someone other than the undersigned. Such prohibited hedging or other transactions would include without limitation any short sale or any purchase, sale or grant of any right (including without limitation any put or call option) with respect to any of the Undersigned's Securities or with respect to any security that includes, relates to, or derives any significant part of its value from such securities.

The Lock-Up Period will commence on the date of this letter agreement and continue to and include the date 180 days after the date of the final prospectus (the "*Prospectus*") used to sell Common Stock in the Offering pursuant to the Purchase Agreement, and the undersigned's obligations hereunder shall terminate on the first day after such date.

If the undersigned is an officer or director of the Company, (i) the Representative agrees that, at least three business days before the effective date of any release or waiver of the foregoing restrictions in connection with a transfer of shares of Common Stock, the Representative will notify the Company of the impending release or waiver, and (ii) the Company has agreed in the Purchase Agreement to announce the impending release or waiver by issuing a press release through a major news service at least two business days before the effective date of the release or waiver. Any release or waiver granted by the Representative hereunder to any such officer or director shall only be effective two business days after the publication date of such press release. The provisions of this paragraph will not apply if both (a) the release or waiver is effected solely to permit a transfer not for consideration, and (b) the transferee has agreed in writing to be bound by the same terms described in this letter agreement that are applicable to the transferor, to the extent and for the duration that such terms remain in effect at the time of the transfer. The undersigned further agrees that the foregoing provisions shall be equally applicable to any issuer-directed Common Stock that the undersigned may purchase in the Offering.

Notwithstanding the foregoing, the undersigned may transfer the Undersigned's Securities (i) as a *bona fide* gift or gifts, (ii) to any immediate family member, any trust, partnership, limited liability company or other entity for the direct or indirect benefit of the undersigned or the immediate family of the undersigned, (iii) if the undersigned is a corporation, partnership, limited liability company, trust or other business entity (1) to another corporation, partnership, limited liability company, trust or other business entity that is a direct or indirect affiliate (as defined in Rule 405 promulgated under the Securities Act of 1933, as amended) of the undersigned or (2) in distributions of shares of Common Stock or any security convertible into or exercisable for Common Stock to limited partners, limited liability company members or stockholders of the undersigned, (iv) if the undersigned is a trust, to the beneficiary of such trust, (v) by testate succession or intestate succession or (vi) pursuant to the Purchase Agreement; *provided*, in the case of clauses (i)-(v), that (x) such transfer shall not involve a disposition for value, (y) the transferee agrees in writing with the Representative to be bound by the terms of this letter agreement, and (z) no filing by any party under Section 16(a) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), shall be required or shall be made voluntarily in connection with such transfer (other than a filing on a Form 5 filed within 45 days of December 31, 2018, in which case such Form 5 shall include a footnote describing the transaction being reported). For purposes of this letter agreement, "immediate family" shall mean any relationship by blood, marriage, domestic partnership or adoption, not more remote than first cousin. Additionally, any Common Stock acquired by the undersigned in the Offering

(other than any issuer-directed Common Stock purchased in the Offering by an officer or director of the Company) or in the open market on or after the date of the Offering will not be subject to this letter agreement; *provided* no filing under Section 16(a) of the Exchange Act by any party shall be voluntarily made in connection with any subsequent sale, transfer, gift or disposition of such Common Stock.

In addition, the foregoing restrictions shall not apply to:

- (i) the exercise of stock options granted pursuant to the Company's equity incentive plans (including by "net" or "cashless exercise"); provided that they shall apply to any of the Undersigned's Securities issued upon such exercise;
- (ii) the establishment of any contract, instruction or plan (a "Plan") that satisfies all of the requirements of Rule 10b5-1(c)(1)(i)(B) under the Exchange Act; provided that no sales of the Undersigned's Securities shall be made pursuant to such a Plan prior to the expiration of the Lock-Up Period, and such a Plan may only be established if no public announcement of the establishment or existence thereof and no filing with the Securities and Exchange Commission or other regulatory authority in respect thereof or transactions thereunder or contemplated thereby, by the undersigned, the Company or any other person, shall be required, and no such announcement or filing is made voluntarily, by the undersigned, the Company or any other person, prior to the expiration of the Lock-Up Period;
- (iii) transfers of the Undersigned's Securities to the Company to satisfy tax withholding obligations pursuant to the Company's equity incentive plans that are described in the Prospectus;
- (iv) transfers of the Undersigned's Securities to the Company by an executive officer upon death, disability or termination of employment, in each case, of such executive officer;
- (v) conversion of the outstanding shares of preferred stock of the Company into shares of Common Stock, *provided* that they shall apply to any of the Undersigned's Securities received upon such conversion;
- (vi) transfers of Common Stock or any securities convertible into or exercisable or exchangeable for Common Stock by operation of law to a spouse, former spouse, domestic partner, former domestic partner, child or other dependent pursuant to a qualified domestic order or in connection with a divorce settlement; *provided* if the undersigned is required to file a report under Section 16(a) of the Exchange Act reporting a reduction in beneficial ownership of shares of Common Stock during the Lock-Up Period, that the undersigned shall include a statement in such report to the effect that the transfer occurred by operation of law, such as pursuant to a qualified domestic order or in connection with a divorce settlement, as applicable; or
- (vii) transfers of Common Stock or any securities convertible into or exercisable or exchangeable for Common Stock pursuant to a bona fide third-party tender offer, merger, consolidation or other similar transaction made to all holders of the Company's capital stock involving a change of control of the Company; *provided* that in the event that such tender offer, merger, consolidation or other such transaction is not completed, the Undersigned's Securities shall remain subject to the restrictions contained in this letter agreement.

In furtherance of the foregoing, the Company and its transfer agent and registrar are hereby authorized to decline to make any transfer of shares of Common Stock if such transfer would constitute a violation or breach of this letter agreement.

The undersigned hereby represents and warrants that the undersigned has full power and authority to enter into this letter agreement and that upon request, the undersigned will execute any additional documents necessary to ensure the validity or enforcement of this letter agreement. All authority herein conferred or agreed to be conferred and any obligations of the undersigned shall be binding upon the successors, assigns, heirs or personal representatives of the undersigned.

The undersigned understands that the undersigned shall be released from all obligations under this letter agreement, and this letter agreement shall be void and of no further force or effect, if (i) the Company notifies the Underwriters that it does not intend to proceed with the Offering, (ii) the Purchase Agreement does not become effective, or if the Purchase Agreement (other than the provisions thereof which survive termination) shall terminate or be terminated prior to payment for and delivery of the Common Stock to be sold thereunder or (iii) the Offering is not completed by September 30, 2018.

For avoidance of doubt, this letter agreement does not prohibit any of the transactions contemplated by the Corporate Conversion (as defined in the Purchase Agreement).

The undersigned understands that the Underwriters are entering into the Purchase Agreement and proceeding with the Offering in reliance upon this letter agreement. This letter agreement may only be modified, supplemented, or terminated (other than in accordance with its terms), in a writing executed and delivered by the undersigned and the Representative.

[Signature on following page]

This letter agreement shall be governed by, and construed in accordance with, the laws of the State of New York.

Very	truly yours,
	Printed Name of Holder
By:	
	Signature
(and	Printed Name of Person Signing

Printed Name of Person Signing (and indicate capacity of person signing if signing as custodian, trustee, or on behalf of an entity)

EXHIBIT B

Form of Company Press Release for Waivers or Releases of Officer/Director Lock-Up Agreements

electroCore, Inc.

[Date]

electroCore, Inc. (the "Company") announced today that Evercore Group L.L.C., as the representative of the underwriters, is [waiving] [releasing] [a] lock-up restriction[s] with respect to an aggregate of [# of common shares] held by certain [officers] [directors] of the Company. These [officers] [directors] entered into lock-up agreements with the representatives in connection with the Company's initial public offering.

This [waiver] [release] will take effect on [date that is at least 2 business days following date of this press release].

This press release is not an offer for sale of the securities in the United States or in any other jurisdiction where such offer is prohibited, and such securities may not be offered or sold in the United States absent registration or an exemption from registration under the United States Securities Act of 1933, as amended.

Consent of Independent Registered Public Accounting Firm

The Board of Directors Electrocore, LLC, Subsidiaries and Affiliate:

We consent to the use of our report included herein and to the reference to our firm under the heading "Experts" in the prospectus.

/s/ KPMG LLP

Short Hills, New Jersey June 11, 2018