

InspireMD, Inc.
Form 424B4
March 10, 2017

**Prospectus Filed pursuant to 424(b)(4)
Registration No. 333-215682**

InspireMD, Inc.

1,171,875 Units

Each Consisting of One Share of Series C Convertible Preferred Stock

**Warrants to Purchase Four Shares of Common Stock
and**

Short-Term Warrants to Purchase Four Shares of Common Stock

4,687,500 Shares of Common Stock Underlying the Series C Convertible Preferred Stock

4,687,500 Shares of Common Stock Underlying the Warrants

4,687,500 Shares of Common Stock Underlying the Short-Term Warrants

We are offering up to 1,171,875 units, with each unit consisting of (i) one share of our Series C Convertible Preferred Stock (the “Preferred Stock”), (ii) five-year warrants (the “Series B Warrants”) to purchase four shares of our common stock, and (iii) six-month warrants (the “Series C Warrants” and together with the Series B Warrants, the “Warrants”) to purchase four shares of our common stock (and the shares of common stock issuable from time to time upon conversion of the Preferred Stock and the shares of common stock upon exercise of the Warrants). Each share of Preferred Stock has a stated value of \$6.40 and is initially convertible into four shares of our common stock at a conversion price equal to \$1.60, subject to adjustment as provided in the certificate of designation. Each Series B Warrant is exercisable for one share of common stock at an exercise price of \$2.00 per share of common stock, and each Series C Warrant is exercisable for one share of common stock at an exercise price of \$1.60 per share of common stock. The units will be sold for a purchase price equal to \$6.40 per unit. Units will not be issued or certificated. The shares of Preferred Stock and the Warrants will be issued separately but can only be purchased together in this offering. Each Warrant will be immediately exercisable.

Our common stock is traded on the NYSE MKT under the symbol “NSPR,” and our warrants sold in our public offering that closed on July 7, 2016 (the “Series A Warrants”), are traded on the NYSE MKT under the symbol “NSPR.WS.” Following completion of this offering, we intend to apply to list the Series B Warrants on the NYSE MKT. No assurance can be given that such listing will be approved. We do not intend to apply for listing of either the Preferred Stock or the Series C Warrants on any securities exchange, and we do not expect that the Preferred Stock or the Series C Warrants will be quoted on any quotation system. On March 8, 2017, the last reported sale price of our common stock and our Series A Warrants as reported on the NYSE MKT was \$1.97 per share and \$0.36 per warrant.

We have retained Dawson James Securities, Inc. to act as placement agent in connection with this offering and to use its “best efforts” to solicit offers to purchase the units. We have agreed to pay the placement agent a cash fee equal to 8.0% of the gross proceeds of the offering and 3.0% of the proceeds from the exercise of the Series C Warrants. There are no minimum purchase requirements. We may not sell the entire amount of the securities being offered pursuant to this prospectus. The placement agent is not purchasing or selling any securities pursuant to this offering, nor are we requiring any minimum purchase or sale of any specific number of securities. Because there is no minimum offering amount required as a condition to the closing of this offering, the actual public offering amount, placement agent fees and proceeds to us are not presently determinable and may be substantially less than the maximum amounts set forth below. See “Plan of Distribution” beginning on page 107 of this prospectus for more information regarding these arrangements.

Investing in our Preferred Stock and Warrants (and the common stock underlying such securities) involves a high degree of risk. See “Risk Factors” beginning on page 8 of this prospectus before making a decision to purchase our securities.

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

| | Per Unit | Total |
|-------------------------------------|-------------|----------------|
| Public offering price | \$6.40 | \$7,500,000.00 |
| Placement agent fees ⁽¹⁾ | \$0.512 | \$600,000.00 |
| Proceeds, before expenses, to us | \$5.888 | \$6,900,000.00 |

In addition, we have agreed to reimburse the placement agent for certain offering-related expenses and have agreed (1) to pay the placement agent a warrant solicitation fee of 3.0% of the proceeds from the exercise of the Series C Warrants. See “Plan of Distribution” for more information.

Because there is no minimum offering amount required as a condition to closing this offering, we may sell fewer than all of the securities offered hereby, which may significantly reduce the amount of proceeds received by us, and investors in this offering will not receive a refund in the event that we do not sell an amount of securities sufficient to pursue the business goals outlined in this prospectus. In addition, because there is no escrow account and no minimum offering amount in this offering, investors could be in a position where they have invested in our company, but we are unable to fulfill our objectives due to a lack of interest in this offering. Also, any proceeds from the sale of securities offered by us will be available for our immediate use, despite uncertainty about whether we would be able to use such funds to effectively implement our business plan. See “Risk Factors” for more information. The offering will be terminated by March 31, 2017, and may not be extended.

Affiliates and associated persons of Dawson James Securities, Inc. may invest in this offering on the same terms and conditions as the public investors participating in this offering.

The placement agent expects to deliver the securities against payment in New York, New York on or about March 14, 2017.

DAWSON JAMES SECURITIES, INC.

The date of this prospectus is March 9, 2017

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You should rely only on the information contained in this prospectus. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. We are not making an offer to sell these securities in any jurisdiction where offer or sale is not permitted. You should assume that the information appearing in this prospectus is accurate only as of the date on the front cover of this prospectus. Our business, financial condition, results of operations and prospects may have changed since that date.

Unless otherwise indicated, information contained in this prospectus concerning our industry and the markets in which we operate, including our general expectations and market position, market opportunity and market share, is based on information from our own management estimates and research, as well as from industry and general publications and research, surveys and studies conducted by third parties. Management estimates are derived from publicly available information, our knowledge of our industry and assumptions based on such information and knowledge, which we believe to be reasonable. Our management estimates have not been verified by any independent source, and we have not independently verified any third-party information. In addition, assumptions and estimates of our and our industry’s future performance are necessarily subject to a high degree of uncertainty and risk due to a variety of factors, including those described in “Risk Factors.” These and other factors could cause our future performance to differ materially from our assumptions and estimates. See “Cautionary Note Regarding Forward-Looking Statements.”

This prospectus contains references to our trademarks and service marks and to those belonging to other entities. Solely for convenience, trademarks and trade names referred to in this prospectus may appear without the ® or ™ 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 rights of the applicable licensor to these trademarks and trade names. We do not intend our use or display of other companies' trade names, trademarks or service marks to imply a relationship with, or endorsement or sponsorship of us by, any other companies.

PROSPECTUS SUMMARY

This summary highlights selected information contained in greater detail elsewhere in this prospectus or incorporated by reference into this prospectus. This summary may not contain all of the information that you should consider before investing in our securities. You should read this entire prospectus carefully, including the sections entitled “Risk Factors” and “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” and our historical financial statements and related notes included elsewhere in this prospectus before making an investment decision. In this prospectus, unless the context requires otherwise, all references to “we,” “our” and “us” refer to InspireMD, Inc., a publicly traded Delaware corporation, and its direct and indirect subsidiaries, including InspireMD Ltd., unless the context requires otherwise.

Unless otherwise indicated, all information in this prospectus reflects a 1-for-10 reverse stock split of our common stock that occurred on October 1, 2015, a 1-for-25 reverse stock split of our common stock that occurred on October 7, 2016, and a 1-for-25 reverse stock split of our Series A Warrants that occurred on November 7, 2016.

Overview

We are a medical device company focusing on the development and commercialization of our proprietary MicroNet™ stent platform technology for the treatment of complex vascular and coronary disease. A stent is an expandable “scaffold-like” device, usually constructed of a metallic material, that is inserted into an artery to expand the inside passage and improve blood flow. Our MicroNet, a micron mesh sleeve, is wrapped over a stent to provide embolic protection in stenting procedures.

Our CGuard™ carotid embolic prevention system (“CGuard EPS”) combines MicroNet and a self-expandable nitinol stent in a single device for use in carotid artery applications. Our CGuard EPS received CE mark approval in the European Union in March 2013, and we launched its release on a limited basis in October 2014. In January 2015, a new version of CGuard, with a rapid exchange delivery system, received CE mark approval in Europe and in September 2015, we announced the full market launch of CGuard EPS in Europe. Subsequently, we launched CGuard EPS in Argentina and Colombia, and have received regulatory approval to commercialize CGuard EPS in Russia. If we receive sufficient proceeds from the exercise of the Series C Warrants, we plan to develop CGuard EPS with a smaller delivery catheter (5 French gauge), which we intend to submit for CE mark approval within three calendar quarters of receiving such proceeds. We believe that CGuard EPS with a smaller delivery catheter will enable us to meet the market demand for minimally invasive devices, have a competitive advantage in penetrating the Asia Pacific market and offer our product for transradial catheterization, which, we believe, is gaining favor among interventionalists. We cannot give any assurance that we will receive sufficient (or any) proceeds from the exercise of the Series C Warrants or the timing of receipt of such proceeds, if ever. We cannot predict when or if the Series C Warrants will be

exercised. It is possible that the Series C Warrants may expire and may never be exercised.

Our MGuard™ Prime™ Embolic Protection System (“MGuard Prime EPS”) is marketed for use in patients with acute coronary syndromes, notably acute myocardial infarction (heart attack) and saphenous vein graft coronary interventions (bypass surgery). MGuard Prime EPS combines MicroNet with a bare-metal cobalt-chromium based stent and, together with our first generation MGuard stent combining MicroNet with a bare-metal stainless steel stent, unless otherwise indicated, we refer to both kinds of bare-metal stents as our MGuard coronary products. We market and sell MGuard Prime EPS for the treatment of coronary disease in the European Union. MGuard Prime EPS received CE mark approval in the European Union in October 2010 for improving luminal diameter and providing embolic protection. However, as a result of a shift in industry preferences away from bare-metal stents in favor of drug-eluting (drug-coated) stents, in 2014 we decided to curtail further development of this product in order to focus on the development of a drug-eluting stent product, MGuard DES™. Due to limited resources, though, our efforts have been limited to testing drug-eluting stents manufactured by potential partners for compatibility with MicroNet and seeking to incorporate MicroNet onto a drug-eluting stent manufactured by a potential partner.

We are also developing a neurovascular flow diverter (“NGuard”), which is an endovascular device that directs blood flow away from cerebral aneurysms in order to ultimately seal the aneurysms. Our flow diverter would utilize an open cell, highly flexible metal scaffold to which MicroNet would be attached. We have completed initial pre-clinical testing of this product in both simulated bench models and standard in vivo pre-clinical models. However, as we plan to focus our resources on the further expansion of our sales and marketing activities for CGuard EPS and MGuard Prime EPS and, provided that we have sufficient resources, the development of CGuard EPS with a smaller delivery catheter (5 French gauge) and its submission for CE mark approval, we do not intend to resume further development of NGuard until at least the third quarter of 2018.

We also intend to develop a pipeline of other products and additional applications by leveraging our MicroNet technology to new applications to improve peripheral vascular and neurovascular procedures, such as the treatment of the superficial femoral artery disease, vascular disease below the knee and neurovascular stenting to open diseased vessels in the brain.

Presently, none of our products may be sold or marketed in the United States.

During the first quarter of 2015, we implemented a cost reduction/focused spending plan. The plan had four components: (i) reducing headcount; (ii) limiting the focus of clinical and development expenses to only carotid and neurovascular products; (iii) limiting sales and marketing expenses to those related to the CGuard EPS stent launch; and (iv) reducing all other expenses (including conferences, travel, promotional expenses, executive cash salaries, director cash fees, rent, etc.). In addition, we decided to alter our commercial strategy by using third party distributors to drive future sales, as opposed to direct sales to hospitals and clinics, which had previously been our focus. However, we have decided to shift our commercial strategy to focus on direct sales of our products through our own internal sales initiatives as well as through distribution partners. In addition, we have begun to participate in international trade shows and industry conferences in an attempt to gain market exposure and brand recognition.

Recent Developments

On July 7, 2016, we closed a public offering of 442,424 shares of Series B Convertible Preferred Stock and Series A Warrants to purchase up to 1,769,696 shares of common stock. Each share of Series B Convertible Preferred Stock and the accompanying Series A Warrants were sold at a price of \$33.00. Each share of Series B Convertible Preferred Stock was initially convertible into four shares of common stock reflecting a conversion price equal to \$8.25 per share. Upon completion of this offering, pursuant to the full-ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, the conversion price of the Series B Convertible Preferred Stock will be adjusted to \$1.60 per share of common stock, and each share of Series B Convertible Preferred Stock will be convertible into 20.625 shares of common stock. The holders of Series B Convertible Preferred Stock will be entitled to receive cumulative dividends at the rate per share of 15% per annum of the stated value for five years, payable in cash or common stock, at our discretion. The Series A Warrants are exercisable immediately and have a term of exercise of five years from the date of issuance and have an exercise price of \$5.00 per share of common stock. The Series A Warrants commenced trading on the NYSE MKT under the ticker symbol "NSPR.WS" on August 1, 2016. We received gross proceeds of approximately \$14.6 million from the offering, before deducting placement agent fees and offering expenses payable by us.

Growth Strategy

Our primary business objective is to utilize our proprietary technology to become the industry standard for treatment of complex vascular and coronary disease and to provide a superior solution to the common acute problems caused by current stenting procedures, such as restenosis, embolic showers and late thrombosis. We are pursuing the following business strategies in order to achieve this objective.

Grow our presence in existing and new markets for CGuard EPS. We have fully launched CGuard EPS in most European and Latin American countries, through a combination of distributor sales organizations. We are also

pursuing additional registrations and contracts with local distributors in other countries in Europe, Asia and Latin America.

Continue to leverage MicroNet technology to develop additional applications for interventional cardiologists and vascular surgeons. In addition to the applications described above, we believe that we will eventually be able to utilize our proprietary MicroNet technology to address imminent market needs for new product innovations to significantly improve patients' care. We continue to broadly develop and protect intellectual property using our mesh technology. Examples of some areas include peripheral vascular disease, neurovascular disease, renal artery disease, and bifurcation disease.

Establish relationships with collaborative and development partners to fully develop and market our existing and future products. We are seeking strategic partners for collaborative research, development, marketing, distribution, or other agreements, which could assist with our development and commercialization efforts for CGuard EPS and NGuard, as well as future efforts with MGuard Prime EPS, MGuard DES, and other potential products that are based on our MicroNet technology.

Continue to protect and expand our portfolio of patents. Our MicroNet technology and the use of patents to protect it are critical to our success. We own numerous patents for our MicroNet technology. Twelve separate patent applications have been filed in the United States, some of which have corresponding patent applications and/or issued patents in Canada, China, Europe, Israel, India, and South Africa. We believe these patents and patent applications collectively cover all of our existing products, and may be useful for protecting our future technological developments. We intend to aggressively continue patenting new technology, and to actively pursue any infringement covered by any of our patents. We believe that our patents, and patent applications once allowed, are important for maintaining the competitive differentiation of our products and maximizing our return on research and development investments.

Resume development and successfully commercialize MGuard DES. While we have limited the focus of product development to carotid and neurovascular products, if we resume development of our coronary products, we plan to evaluate opportunities to further develop MGuard DES.

Risks Associated with Our Business

Our ability to operate our business and achieve our goals and strategies is subject to numerous risks as discussed more fully in the section titled “Risk Factors,” including, without limitation:

our history of recurring losses and negative cash flows from operating activities, significant future commitments and the uncertainty regarding the adequacy of our liquidity to pursue our complete business objectives, and substantial doubt regarding our ability to continue as a going concern;

our need to raise additional capital to meet our business requirements in the future and such capital raising may be costly or difficult to obtain and could dilute our stockholders’ ownership interests;

our ability to generate revenues from our products and obtain and maintain regulatory approvals for our products;

our ability to adequately protect our intellectual property;

our dependence on a single manufacturing facility and our ability to comply with stringent manufacturing quality standards and to increase production as necessary;

the risk that the data collected from our current and planned clinical trials may not be sufficient to demonstrate that our technology is an attractive alternative to other procedures and products;

market acceptance and adoption of our products;

intense competition in our industry, with competitors having substantially greater financial, technological, research and development, regulatory and clinical, manufacturing, marketing and sales, distribution and personnel resources than we do;

entry of new competitors and products and potential technological obsolescence of our products;

loss of a key customer or supplier;

technical problems with our research and products and potential product liability claims;

adverse economic conditions;

insufficient or inadequate reimbursement by governmental and other third party payers for our products;

adverse federal, state and local government regulation in the United States, Europe, Israel and other foreign jurisdictions;

price increases for supplies and components;

inability to carry out research, development and commercialization plans; and
loss or retirement of key executives and research scientists.

Corporate Information

We were organized in the State of Delaware on February 29, 2008. Our principal executive offices are located at 4 Menorat Hamaor St., Tel Aviv, Israel 6744832. Our telephone number is (888) 776-6804. Our website address is www.inspire-md.com. Information accessed through our website is not incorporated into this prospectus and is not a part of this prospectus.

The Offering

| | |
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| Issuer | InspireMD, Inc. |
| Securities offered by us in this offering | Up to 1,171,875 units, with each unit consisting of (i) one share of Preferred Stock, (ii) Series B Warrants to purchase four shares of our common stock, and (iii) Series C Warrants to purchase four shares of our common stock (4,687,500 shares of common stock issuable upon conversion of the Preferred Stock, 4,687,500 shares of our common stock issuable upon exercise of the Series B Warrants, and 4,687,500 shares of our common stock issuable upon exercise of the Series C Warrants). |
| Conversion | <p>The Preferred Stock has a stated value of \$6.40 and is initially convertible into four shares of our common stock at a conversion price equal to \$1.60, subject to adjustment as provided in the certificate of designation, at any time at the option of the holder, provided that the holder will be prohibited from converting Preferred Stock into shares of our common stock if, as a result of such conversion, the holder, together with its affiliates, would own more than 4.99% of the total number of shares of our common stock then issued and outstanding. However, any holder may increase such percentage to any other percentage not in excess of 9.99%, provided that any increase in such percentage shall not be effective until 61 days after such notice to us.</p> <p>The Preferred Stock, to the extent that it has not been converted previously, is subject to full ratchet anti-dilution price protection upon the issuance of equity or equity-linked securities at an effective common stock purchase price of less than the conversion price then in effect, subject to adjustment as provided in the certificate of designation.</p> |
| Liquidation preference | In the event of our liquidation, dissolution, or winding up, holders of our Preferred Stock will be entitled to receive the amount of cash, securities or other property to which such holder would be entitled to receive with respect to such shares of Preferred Stock if such shares had been converted to common stock immediately prior to such event (without giving effect for such purposes to any beneficial ownership limitation), subject to the preferential rights of holders of any class or series of our capital stock specifically ranking by its terms senior to the Preferred Stock as to distributions of assets upon such event, whether voluntarily or involuntarily. |
| Voting Rights | The holders of the Preferred Stock have no voting rights, except as required by law. Any amendment to our certificate of incorporation, bylaws or certificate of designation that adversely affects the powers, preferences and rights of the Preferred Stock requires the approval of the holders of a majority of the shares of Preferred Stock then outstanding. |
| Dividends | The holders of our Preferred Stock are entitled to receive dividends on shares of Preferred Stock equal (on an as-if-converted-to-common-stock basis, without giving effect for such purposes to any beneficial ownership limitation) to and in the same form as dividends actually paid on shares of the common stock when such dividends are specifically declared by our board of directors. Our loan and security agreement with Hercules Capital, Inc. (formerly Hercules Technology Growth Capital, Inc.) |

("Hercules"), dated October 23, 2013, as amended, prohibits us from paying cash dividends or distributions on our capital stock.

| | |
|---|--|
| Series B Warrants | Series B Warrants to purchase up to 4,687,500 shares of our common stock. Each Series B Warrant will be immediately exercisable for one share of common stock, have an initial exercise price of \$2.00 per share of common stock, and will expire after five years from the date of issuance. We, with the consent of the warrant holders holding all of the then outstanding Series B Warrants, may increase the exercise price, shorten the expiration date and amend all other warrant terms. We may lower the exercise price or extend the expiration date without the consent of investors. See “Description of Securities” for more information. This prospectus also relates to the offering of the shares of common stock issuable upon exercise of the Series B Warrants. |
| Series C Warrants | Series C Warrants to purchase up to 4,687,500 shares of our common stock. Each Series C Warrant will be immediately exercisable for one share of common stock, have an initial exercise price of \$1.60 per share of common stock, and will expire after six months from the date of issuance. We, with the consent of the warrant holders holding all of the then outstanding Series C Warrants, may increase the exercise price, shorten the expiration date and amend all other warrant terms. We may lower the exercise price or extend the expiration date without the consent of investors. See “Description of Securities” for more information. This prospectus also relates to the offering of the shares of common stock issuable upon exercise of the Series C Warrants. |
| Common stock outstanding immediately before this offering | 1,472,606 shares as of March 8, 2017. |
| Common stock outstanding immediately after this offering | 15,223,420 shares (assuming sale of all units covered by this prospectus, conversion of 1,171,875 shares of Preferred Stock included in the units into 4,687,500 shares of common stock at the conversion price of \$1.60 per share and no exercise of any Warrants included in the units). ⁽¹⁾ |
| Use of proceeds | We estimate that our net proceeds from this offering will be approximately \$6,675,500 after deducting estimated placement agent fees and other estimated offering expenses payable by us (assuming sale of all units covered by this prospectus and no exercise of any Warrants included in the units). |
| Dividend policy | We plan to use the net proceeds from the sale of the units in this offering to further fund the expansion of our sales and marketing activities for CGuard EPS and MGuard Prime EPS. If we receive sufficient proceeds from the exercise of the Series C Warrants, we plan to continue the development of and manufacturing enhancements for CGuard EPS and further our efforts to obtain an Investigational Device Exemption (“IDE”) approval for CGuard EPS. Any balance of the net proceeds will be used for general corporate purposes. See “Use of Proceeds.” We have not declared or paid any cash or other dividends on our capital stock, and we do not expect to declare or pay any cash or other dividends in the foreseeable future other than on the Series B Convertible Preferred Stock. Our loan and security agreement with Hercules, dated October 23, |

2013, as amended, prohibits us from paying cash dividends or distributions on our capital stock. See “Dividend Policy.”

Risk factors You should carefully read and consider the information beginning on page 8 of this prospectus set forth under the heading “Risk Factors” and all other information set forth in this prospectus and the documents incorporated herein and therein by reference before deciding to invest in our Preferred Stock and Warrants.

NYSE MKT symbol for common stock and publicly traded warrants Our common stock is traded on the NYSE MKT under the symbol “NSPR,” and our Series A Warrants are traded on the NYSE MKT under the symbol “NSPR.WS.” Following completion of this offering, we intend to apply to list the Series B Warrants on the NYSE MKT. No assurance can be given that such listing will be approved. An active trading market for the Series B Warrants may not develop following the completion of this offering or, if developed, may not be sustained. Neither the Preferred Stock nor the Series C Warrants will be listed on the NYSE MKT or any other exchange or trading market. There is no established trading market for the Preferred Stock or the Series C Warrants. We do not expect any such trading market to develop for the Preferred Stock or the Warrants.

Includes the issuance of 9,063,314 additional shares of common stock that we will be required to issue to the holders of our Series B Convertible Preferred Stock upon conversion of our Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock, as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, based on 311,521 shares of Series B Convertible Preferred Stock outstanding as of March 8, 2017, and the adjusted Series B Convertible Preferred Stock conversion price of \$1.60 per share of common stock (see “Risk Factors — Risks Related to Our (1) Organization and Our Common Stock, Preferred Stock, Warrants and this Offering—Because the effective common stock purchase price in this offering is less than the current Series B Convertible Preferred Stock conversion price of \$8.25, we will be required to issue additional shares of common stock to the holders of our Series B Convertible Preferred Stock upon conversion of the Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, which will be dilutive to all of our other stockholders, including new investors in this offering.”).

The number of shares to be outstanding immediately before and immediately after this offering is based on 1,472,606 shares of our common stock and 311,521 shares of Series B Convertible Preferred Stock outstanding as of March 8, 2017, and excludes as of that date:

3,660 shares of common stock issuable upon the exercise of currently outstanding warrants with an exercise price of \$1,800.00 per share;

2,640 shares of common stock issuable upon the exercise of currently outstanding warrants with an exercise price of \$750.00 per share;

674 shares of common stock issuable upon the exercise of currently outstanding warrants with an exercise price of \$742.50 per share;

12,531 shares of common stock issuable upon the exercise of currently outstanding warrants to purchase one-half of one share of common stock with an exercise price for two warrants of \$437.50 per full share;

137,484 shares of common stock issuable upon the exercise of currently outstanding warrants with an exercise price of \$137.50 per share;

58,668 shares of common stock issuable upon the exercise of currently outstanding warrants with an exercise price of \$14.75 per share;

5,867 shares of common stock issuable upon the exercise of currently outstanding warrants with an exercise price of \$18.44 per share;

38,691 shares of common stock issuable upon the exercise of currently outstanding warrants issued to Hercules on June 13, 2016, with an exercise price of \$4.71 per share;

1,246,084 shares of common stock issuable upon the conversion of the currently outstanding Series B Convertible Preferred Stock and payment of all dividends accrued on the Series B Convertible Preferred Stock in an aggregate of 934,563 shares of common stock upon conversion of currently outstanding Series B Convertible Preferred Stock

at the initial conversion price of \$8.25 per share and the stated value per share of \$33.00;

1,769,696 shares of common stock issuable upon the exercise of currently outstanding Series A Warrants with an exercise price of \$5.00 per share;

123,880 shares of common stock issuable upon conversion of the Series B Convertible Preferred Stock and exercise of the Series A Warrants included in the unit purchase option that we issued to the placement agent in the public offering that closed on July 7, 2016;

46,455 shares of common stock issuable as cumulative dividends upon conversion of the Series B Convertible Preferred Stock included in the unit purchase option that we issued to the placement agent in the public offering that closed on July 7, 2016;

450,517 additional shares of common stock that we will be required to issue to the placement agent upon conversion of shares of Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, based on the adjusted Series B Convertible Preferred Stock conversion price of \$1.60 per share of common stock, included in the unit purchase option that we issued to the placement agent in the public offering that closed on July 7, 2016 (see “Risk Factors — Risks Related to Our Organization and Our Common Stock, Preferred Stock, Warrants and this Offering—Because the effective common stock purchase price in this offering is less than the current Series B Convertible Preferred Stock conversion price of \$8.25, we will be required to issue additional shares of common stock to the holders of our Series B Convertible Preferred Stock upon conversion of the Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, which will be dilutive to all of our other stockholders, including new investors in this offering”);

333,401 shares of common stock issuable upon the exercise of currently outstanding options with exercise prices ranging from \$0.0001 to \$2,100.00 and having a weighted average exercise price of \$27.85 per share;

1,714 shares of common stock available for future issuance under our 2011 UMBRELLA Option Plan; and

239,901 shares of common stock available for future issuance under our 2013 Long-Term Incentive Plan.

Unless otherwise stated, all information contained in this prospectus assumes no exercise of the Warrants issued in this offering.

RISK FACTORS

An investment in our securities involves a high degree of risk. Before deciding whether to invest in our securities, you should consider carefully the risks described below, together with other information in this prospectus, the information and documents incorporated by reference, and in any free writing prospectus that we have authorized for use in connection with this offering. If any of these risks actually occurs, our business, financial condition, results of operations or cash flow could be seriously harmed. This could cause the trading price of our common stock to decline, resulting in a loss of all or part of your investment. The risks and uncertainties described below are not the only ones facing us. Additional risks and uncertainties not presently known to us, or that we currently see as immaterial, may also harm our business. Please also read carefully the section below entitled “Cautionary Note Regarding Forward-Looking Statements.”

Risks Related to Our Business

We have a history of net losses and may experience future losses.

We have yet to establish any history of profitable operations. We reported a net loss of \$8.5 million for the fiscal year ended December 31, 2016 and had a net loss of approximately \$15.6 million during the fiscal year ended December 31, 2015. As of December 31, 2016, we had an accumulated deficit of \$132 million. We expect to incur additional operating losses for the foreseeable future. There can be no assurance that we will be able to achieve sufficient revenues throughout the year or be profitable in the future.

The report of our independent registered public accounting firm contains an explanatory paragraph as to our ability to continue as a going concern, which could prevent us from obtaining new financing on reasonable terms or at all.

Because we have had recurring losses and negative cash flows from operating activities, substantial doubt exists regarding our ability to remain as a going concern at the same level at which we are currently performing. Accordingly, the report of Kesselman & Kesselman, our independent registered public accounting firm, with respect to our financial statements for the year ended December 31, 2016, includes an explanatory paragraph as to our potential inability to continue as a going concern. The doubts regarding our potential ability to continue as a going concern may adversely affect our ability to obtain new financing on reasonable terms or at all.

We will need to raise additional capital to meet our business requirements in the future and such capital raising may be costly or difficult to obtain and could dilute our stockholders' ownership interests.

In order to fully realize all of our business objectives, we will need to raise additional capital following the completion of this offering, which additional capital may not be available on reasonable terms or at all. For instance, we will need to raise additional funds to accomplish the following:

- development of our current and future products, including CGuard EPS with a smaller delivery catheter;
- pursuing growth opportunities, including more rapid expansion and funding regional distribution systems;
- making capital improvements to improve our infrastructure;
- hiring and retaining qualified management and key employees;
- responding to competitive pressures;
- complying with regulatory requirements such as licensing and registration; and
- maintaining compliance with applicable laws.

Any additional capital raised through the sale of equity or equity-backed securities may dilute our stockholders' ownership percentages and could also result in a decrease in the market value of our equity securities.

The terms of any securities issued by us in future capital transactions may be more favorable to new investors, and may include preferences, superior voting rights and the issuance of warrants or other derivative securities, which may have a further dilutive effect on the holders of any of our securities then outstanding.

Furthermore, any additional debt or equity financing that we may need may not be available on terms favorable to us, or at all. In connection with this offering, on March 9, 2017, we entered into a placement agency agreement with Dawson James Securities, Inc., which contains a restriction on sales of our capital stock by us for a period of 90 days after the date of the placement agency agreement, which restriction may be waived by Dawson James Securities, Inc., at any time, in its sole discretion. If we are unable to obtain such additional financing on a timely basis, we may have to curtail our development activities and growth plans and/or be forced to sell assets, perhaps on unfavorable terms, which would have a material adverse effect on our business, financial condition and results of operations, and ultimately could be forced to discontinue our operations and liquidate, in which event it is unlikely that stockholders would receive any distribution on their shares. Further, we may not be able to continue operating if we do not generate sufficient revenues from operations needed to stay in business.

In addition, we may incur substantial costs in pursuing future capital financing, including investment banking fees, legal fees, accounting fees, securities law compliance fees, printing and distribution expenses and other costs. We may also be required to recognize non-cash expenses in connection with certain securities we issue, such as convertible notes and warrants, which may adversely impact our financial condition.

The voluntary field action of our MGuard Prime EPS we initiated in 2014 could continue to have a significant adverse impact on us.

The manufacturing and marketing of medical devices involves an inherent risk that our products may prove to be defective and cause a health risk even after regulatory clearances have been obtained. Medical devices may also be modified after regulatory clearance is obtained to such an extent that additional regulatory clearance is necessary before the device can be further marketed. In these events, we may voluntarily implement a recall or market withdrawal or may be required to do so by a regulatory authority.

On April 30, 2014 we initiated a voluntary field corrective action of our MGuard Prime EPS to address the issue of stent retention following reports of MGuard Prime EPS stent dislodgements in patients. Although there have been no reports of death or serious injury as a result of such dislodgements, we decided to suspend shipments of the MGuard Prime EPS and implement a field corrective action to enhance the reliability and performance of the affected product

units in the field. We received European regulatory approval to resume manufacturing and distribution of our MGuard Prime EPS stent with a modified stent securement process, and we resumed shipping products to new customers in our direct markets in Europe in late September 2014. We completed the full re-launch of MGuard Prime EPS in 2015.

As a result of our voluntary field action, we are subject to numerous risks and uncertainties, including the following:

although we resumed manufacturing and distribution of our MGuard Prime EPS stent with a modified stent securement process, our suspension of shipments has and may continue to adversely impact revenue;

we are more susceptible to claims such as product liability claims, distributor claims and class action lawsuits as a result of the reported product malfunction and voluntary field action, which could significantly increase our costs and may have a material adverse effect on our business, financial condition and results of operations; and

our decision to implement the voluntary field action and discontinue shipments, and any additional action related to such decision, may harm our reputation or the market's perception of our products, which could have a negative impact on our future sales and our ability to generate profits.

In the European Economic Area, we must comply with the EU Medical Device Vigilance System. Under this system, manufacturers are required to take Field Safety Corrective Actions (“FSCAs”) to reduce a risk of death or serious deterioration in the state of health associated with the use of a medical device that is already placed on the market. A FSCA may include the recall, modification, exchange, destruction or retrofitting of the device. FSCAs must be communicated by the manufacturer or its legal representative to its customers and/or to the end users of the device through Field Safety Notices.

Any adverse event involving our products could result in other future voluntary corrective actions, such as recalls or customer notifications, or agency action, such as inspection or enforcement action. Adverse events, such as the MGuard Prime EPS stent dislodgements, have been reported to us in the past, and we cannot guarantee that they will not occur in the future. Any corrective action, whether voluntary or involuntary, as well as defending ourselves in a lawsuit, would require the dedication of our time and capital, distract management from operating our business and could harm our reputation and financial results.

We expect to derive our revenue from sales of our MGuard Prime EPS and CGuard EPS stent products and other products we may develop, such as CGuard EPS with a smaller delivery catheter. If we fail to generate revenue from these sources, our results of operations and the value of our business would be materially and adversely affected.

We expect our revenue to be generated from sales of our MGuard Prime EPS and CGuard EPS stent products and other products we may develop. Future sales of CGuard EPS will be subject to the receipt of regulatory approvals and commercial and market uncertainties that may be outside our control. In addition, sales of MGuard Prime EPS have been hampered by weakened demand for bare metal stents, which may never improve, and we may not be successful in developing a drug-eluting stent product. In addition, there may be insufficient demand for other products we are seeking to develop, such as CGuard EPS with a smaller delivery catheter. If we fail to generate expected revenues from these products, our results of operations and the value of our business and securities would be materially and adversely affected.

If we are unable to obtain and maintain intellectual property protection covering our products, others may be able to make, use or sell our products, which would adversely affect our revenue.

Our ability to protect our products from unauthorized or infringing use by third parties depends substantially on our ability to obtain and maintain valid and enforceable patents. Similarly, the ability to protect our trademark rights might be important to prevent third party counterfeiters from selling poor quality goods using our designated trademarks/trade names. Due to evolving legal standards relating to the patentability, validity and enforceability of patents covering medical devices and pharmaceutical inventions and the scope of claims made under these patents, our ability to enforce patents is uncertain and involves complex legal and factual questions. Accordingly, rights under any of our pending patent applications and patents may not provide us with commercially meaningful protection for our products or may not afford a commercial advantage against our competitors or their competitive products or

processes. In addition, patents may not be issued from any pending or future patent applications owned by or licensed to us, and moreover, patents that may be issued to us now or in the future may not be valid or enforceable. Further, even if valid and enforceable, our patents may not be sufficiently broad to prevent others from marketing products like ours, despite our patent rights.

The validity of our patent claims depends, in part, on whether prior art references exist that describe or render obvious our inventions as of the filing date of our patent applications. We may not have identified all prior art, such as U.S. and foreign patents or published applications or published scientific literature, that could adversely affect the patentability of our pending patent applications. For example, some material references may be in a foreign language and may not be uncovered during examination of our patent applications. Additionally, patent applications in the United States are maintained in confidence for up to 18 months after their filing. In some cases, however, patent applications remain confidential in the U.S. Patent and Trademark Office for the entire time prior to issuance as a U.S. patent. Patent applications filed in countries outside the U.S. are not typically published until at least 18 months from their first filing date. Similarly, publication of discoveries in the scientific or patent literature often lags behind actual discoveries. Therefore, we cannot be certain that we were the first to invent, or the first to file patent applications relating to, our stent technologies. In the event that a third party has also filed a U.S. patent application covering our stents or a similar invention, we may have to participate in an adversarial proceeding, known as an interference, declared by the U.S. Patent and Trademark Office to determine priority of invention in the United States. It is possible that we may be unsuccessful in the interference, resulting in a loss of some portion or all of our position in the United States.

In addition, statutory differences in patentable subject matter depending on the jurisdiction may limit the protection we obtain on certain of the technologies we develop. The laws of some foreign jurisdictions do not offer the same protection to, or may make it more difficult to effect the enforcement of, proprietary rights as in the United States, risk that may be exacerbated if we move our manufacturing to certain countries in Asia. If we encounter such difficulties or are otherwise precluded from effectively protecting our intellectual property rights in any foreign jurisdictions, our business prospects could be substantially harmed.

We may initiate litigation to enforce our patent rights on any patents issued on pending patent applications, which may prompt adversaries in such litigation to challenge the validity, scope, ownership, or enforceability of our patents. Third parties can sometimes bring challenges against a patent holder to resolve these issues, as well. If a court decides that any such patents are not valid, not enforceable, not wholly owned by us, or are of a limited scope, we may not have the right to stop others from using our inventions. Also, even if our patent rights are determined by a court to be valid and enforceable, they may not be sufficiently broad to prevent others from marketing products similar to ours or designing around our patents, despite our patent rights, nor do they provide us with freedom to operate unimpeded by the patent and other intellectual property rights of others that may cover our products. We may be forced into litigation to uphold the validity of the claims in our patent portfolio, as well as our ownership rights to such intellectual property, and litigation is often an uncertain and costly process.

We also rely on trade secret protection to protect our interests in proprietary know-how and for processes for which patents are difficult to obtain or enforce. We may not be able to protect our trade secrets adequately. In addition, we rely on non-disclosure and confidentiality agreements with employees, consultants and other parties to protect, in part, trade secrets and other proprietary technology. These agreements may be breached and we may not have adequate remedies for any breach. Moreover, others may independently develop equivalent proprietary information, and third parties may otherwise gain access to our trade secrets and proprietary knowledge. Any disclosure of confidential data into the public domain or to third parties could allow competitors to learn our trade secrets and use the information in competition against us.

If our manufacturing facilities are unable to provide an adequate supply of products, our growth could be limited and our business could be harmed.

We currently manufacture our MGuard Prime EPS and CGuard EPS products at our facility in Tel Aviv, Israel. If there were a disruption to our existing manufacturing facility, we would have no other means of manufacturing our MGuard Prime EPS or CGuard EPS stents until we were able to restore the manufacturing capability at our facility or develop alternative manufacturing facilities. If we were unable to produce sufficient quantities of our MGuard Prime EPS or CGuard EPS stents to meet market demand or for use in our current and planned clinical trials, or if our manufacturing process yields substandard stents, our development and commercialization efforts would be delayed.

Additionally, any damage to or destruction of our Tel Aviv facility or its equipment, prolonged power outage or contamination at our facility would significantly impair our ability to produce either MGuard Prime EPS or CGuard EPS stents.

Finally, the production of our stents must occur in a highly controlled, clean environment to minimize particles and other yield and quality-limiting contaminants. In spite of stringent quality controls, weaknesses in process control or minute impurities in materials may cause a substantial percentage of defective products in a lot. If we are unable to maintain stringent quality controls, or if contamination problems arise, our clinical development and commercialization efforts could be delayed, which would harm our business and results of operations.

Pre-clinical and clinical trials will be lengthy and expensive, and any delay or failure of clinical trials could prevent us from commercializing our MicroNet products, which would materially and adversely affect our results of operations and the value of our business.

As part of the regulatory process, we must conduct clinical trials for each product candidate to demonstrate safety and efficacy to the satisfaction of the regulatory authorities, including, if we seek in the future to sell our products in the United States, the U.S. Food and Drug Administration. Clinical trials are subject to rigorous regulatory requirements and are expensive and time-consuming to design and implement. They require the enrollment of a large number of patients, and suitable patients may be difficult to identify and recruit, which may cause a delay in the development and commercialization of our product candidates. In some trials, a greater number of patients and a longer follow-up period may be required. Patient enrollment in clinical trials and the ability to successfully complete patient follow-up depends on many factors, including the size of the patient population, the nature of the trial protocol, the proximity of patients to clinical sites, the eligibility criteria for the clinical trial and patient compliance. For example, patients may be discouraged from enrolling in our clinical trials if the trial protocol requires them to undergo extensive post-treatment procedures or follow-up to assess the safety and efficacy of our products, or they may be persuaded to participate in contemporaneous clinical trials of competitive products. In addition, patients participating in our clinical trials may die before completion of the trial or suffer adverse medical events unrelated to or related to our products. Delays in patient enrollment or failure of patients to continue to participate in a clinical trial may cause an increase in costs and delays or result in the failure of the clinical trial.

In addition, the length of time required to complete clinical trials for pharmaceutical and medical device products varies substantially according to the degree of regulation and the type, complexity, novelty and intended use of a product, and can continue for several years and cost millions of dollars. The commencement and completion of clinical trials for our existing products and those under development may be delayed by many factors, including governmental or regulatory delays and changes in regulatory requirements, policy and guidelines or our inability or the inability of any potential licensee to manufacture or obtain from third parties materials sufficient for use in preclinical studies and clinical trials. In addition, market demand may change for products being tested due to the length of time needed to complete requisite clinical trials.

Physicians may not widely adopt our products unless they determine, based on experience, long-term clinical data and published peer reviewed journal articles, that the use of our stents provides a safe and effective alternative to other existing treatments for coronary artery disease and carotid artery disease.

We believe that physicians will not widely adopt our products unless they determine, based on experience, long-term clinical data and published peer reviewed journal articles, that the use of our products provide a safe and effective alternative to other existing treatments for the conditions we are seeking to address.

If we fail to demonstrate safety and efficacy that is at least comparable to existing and future therapies available on the market, our ability to successfully market our products will be significantly limited. Even if the data collected from clinical studies or clinical experience indicate positive results, each physician's actual experience with our products will vary. Clinical trials conducted with our products may involve procedures performed by physicians who are technically proficient and are high-volume stent users of such products. Consequently, both short-term and long-term results reported in these clinical trials may be significantly more favorable than typical results of practicing physicians, which could negatively affect rates of adoptions of our products. We also believe that published peer-reviewed journal articles and recommendations and support by influential physicians regarding our products will be important for market acceptance and adoption, and we cannot assure you that we will receive these recommendations and support, or that supportive articles will be published.

Physicians currently consider drug-eluting stents to be the industry standard for treatment of coronary artery disease. None of our current coronary products is a drug-eluting stent, and this may adversely affect our business.

Our ability to attract customers depends to a large extent on our ability to provide goods that meet the customers' and the market's demands and expectations. If we do not have a product that is expected by the market, we may lose customers. The market demand has shifted away from bare metal stents in favor of drug-eluting stents. Our MGuard Prime EPS is a bare-metal stent product and has experienced a substantial reduction in sales over the past two years. Such sales may never recover and we do not currently have the resources to develop a drug-eluting stent product. Our failure to provide industry standard devices could adversely affect our business, financial condition and results of operations.

Our products are based on a new technology, and we have only limited experience in regulatory affairs, which may affect our ability or the time required to navigate complex regulatory requirements and obtain necessary regulatory approvals, if such approvals are received at all. Regulatory delays or denials may increase our costs, cause us to lose revenue and materially and adversely affect our results of operations and the value of our business.

Because our products are new and long-term success measures have not been completely validated, regulatory agencies may take a significant amount of time in evaluating product approval applications. Treatments may exhibit a favorable measure using one metric and an unfavorable measure using another metric. Any change in accepted metrics may result in reconfiguration of, and delays in, our clinical trials. Additionally, we have only limited experience in filing and prosecuting the applications necessary to gain regulatory approvals, and our clinical, regulatory and quality assurance personnel are currently composed of only four employees. As a result, we may experience delays in connection with obtaining regulatory approvals for our products.

In addition, the products we and any potential licensees license, develop, manufacture and market are subject to complex regulatory requirements, particularly in the United States, Europe and Asia, which can be costly and time-consuming. There can be no assurance that such approvals will be granted on a timely basis, if at all. Furthermore, there can be no assurance of continued compliance with all regulatory requirements necessary for the manufacture, marketing and sale of the products we will offer in each market where such products are expected to be sold, or that products we have commercialized will continue to comply with applicable regulatory requirements. If a government regulatory agency were to conclude that we were not in compliance with applicable laws or regulations, the agency could institute proceedings to detain or seize our products, issue a recall, impose operating restrictions, enjoin future violations and assess civil and criminal penalties against us, our officers or employees and could recommend criminal prosecution. Furthermore, regulators may proceed to ban, or request the recall, repair, replacement or refund of the cost of, any device manufactured or sold by us. Furthermore, there can be no assurance that all necessary regulatory approvals will be obtained for the manufacture, marketing and sale in any market of any new product developed or that any potential licensee will develop using our licensed technology.

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

Any regulatory approvals that we receive for our products will require surveillance to monitor the safety and efficacy of the product and may require us to conduct post-approval clinical studies. In addition, if a regulatory authority approves our products, the manufacturing processes, labeling, packaging, distribution, adverse event reporting, storage, advertising, promotion, import, export and recordkeeping for our products will be subject to extensive and ongoing regulatory requirements.

Moreover, if we obtain regulatory approval for any of our products, we will only be permitted to market our products for the indication approved by the regulatory authority, and such approval may involve limitations on the indicated uses or promotional claims we may make for our products. In addition, later discovery of previously unknown problems with our products, including adverse events of unanticipated severity or frequency, or with our suppliers or manufacturing processes, or failure to comply with regulatory requirements, may result in, among other things:

restrictions on the marketing or manufacturing of our product candidates, withdrawal of the product from the market, or voluntary or mandatory product recalls;

fines, warning letters, or untitled letters;

holds on clinical trials;

refusal by the regulatory authority to approve pending applications or supplements to approved applications filed by us or suspension or revocation of license approvals;

product seizure or detention, or refusal to permit the import or export of our product candidates; and

injunctions, the imposition of civil penalties or criminal prosecution.

The applicable regulatory authorities' policies may change and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our products. We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative action, either in the United States or abroad. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained and we may not achieve or sustain profitability.

Further, healthcare laws and regulations may change significantly in the future. Any new healthcare laws or regulations may adversely affect our business. A review of our business by courts or regulatory authorities may result in a determination that could adversely affect our operations. In addition, the healthcare regulatory environment may change in a way that restricts our operations.

We are subject to federal, state and foreign healthcare laws and regulations and implementation of or changes to such healthcare laws and regulations could adversely affect our business and results of operations.

In both the United States and certain foreign jurisdictions, there have been a number of legislative and regulatory proposals in recent years to change the healthcare system in ways that could impact our ability to sell our products. If we are found to be in violation of any of these laws or any other federal or state regulations, we may be subject to administrative, civil and/or criminal penalties, damages, fines, individual imprisonment, exclusion from federal health care programs and the restructuring of our operations. Any of these could have a material adverse effect on our business and financial results. Since many of these laws have not been fully interpreted by the courts, there is an increased risk that we may be found in violation of one or more of their provisions. Any action against us for violation of these laws, even if we ultimately are successful in our defense, will cause us to incur significant legal expenses and divert our management's attention away from the operation of our business.

Failure to obtain regulatory approval in foreign jurisdictions will prevent us from marketing our products in such jurisdictions.

We market our products in international markets. In order to market our products in other foreign jurisdictions, we must obtain separate regulatory approvals from those obtained in the United States and Europe. The approval procedure varies among countries and can involve additional testing, and the time required to obtain approval may differ from that required to obtain CE mark or U.S. Food and Drug Administration approval. Foreign regulatory approval processes may include all of the risks associated with obtaining CE mark or U.S. Food and Drug Administration approval in addition to other risks. We may not obtain foreign regulatory approvals on a timely basis, if at all. CE mark approval does not ensure approval by regulatory authorities in other countries. We may not be able to file for regulatory approvals and may not receive necessary approvals to commercialize our products in certain markets.

We operate in an intensely competitive and rapidly changing business environment, and there is a substantial risk our products could become obsolete or uncompetitive.

The medical device market is highly competitive. We compete with many medical device companies globally in connection with our current products and products under development. We face competition from numerous pharmaceutical and biotechnology companies in the therapeutics area, as well as competition from academic institutions, government agencies and research institutions. When we commercialize our products, we expect to face intense competition from Boston Scientific Corporation, Guidant Corporation, Medtronic, Inc., Abbott Vascular Devices, Johnson & Johnson, Terumo Corporation, Covidien Ltd., Cordis Corporation (currently part of Cardinal Health, Inc.) and others. Most of our current and potential competitors, including but not limited to those listed above, have, and will continue to have, substantially greater financial, technological, research and development, regulatory and clinical, manufacturing, marketing and sales, distribution and personnel resources than we do. There can be no assurance that we will have sufficient resources to successfully commercialize our products, if and when they are approved for sale. The worldwide market for stent products is characterized by intensive development efforts and rapidly advancing technology. Our future success will depend largely upon our ability to anticipate and keep pace with those developments and advances. Current or future competitors could develop alternative technologies, products or materials that are more effective, easier to use or more economical than what we or any potential licensee develop. If our technologies or products become obsolete or uncompetitive, our related product sales and licensing revenue would decrease. This would have a material adverse effect on our business, financial condition and results of operations.

We may become subject to claims by much larger and better capitalized competitors seeking to invalidate our intellectual property or our rights thereto.

Based on the prolific litigation that has occurred in the stent industry and the fact that we may pose a competitive threat to some large and well-capitalized companies that own or control patents relating to stents and their use, manufacture and delivery, we believe that it is possible that one or more third parties will assert a patent infringement claim against the manufacture, use or sale of our stents based on one or more of these patents. These companies also own patents relating to the use of drugs to treat restenosis, stent architecture, catheters to deliver stents, and stent manufacturing and coating processes and compositions, as well as general delivery mechanism patents like rapid exchange that might be alleged to cover one or more of our products. A number of stent-related patents are owned by very large and well-capitalized companies that are active participants in the stent market. In addition, it is possible that a lawsuit asserting patent infringement, misappropriation of intellectual property, or related claims may have already been filed against us of which we are not aware. As the number of competitors in the stent market grows and as the geographies in which we commercially market grow in number and scope, the possibility of patent infringement by us, and/or a patent infringement or misappropriation claim against us, increases.

These companies have maintained their position in the market by, among other things, establishing intellectual property rights relating to their products and enforcing these rights aggressively against their competitors and new entrants into the market. All of the major companies in the stent and related markets, including Boston Scientific Corporation, C.R. Bard, Inc., W.L. Gore & Associates, Inc. and Medtronic, Inc., have been repeatedly involved in patent litigation relating to stents since at least 1997. The stent and related markets have experienced rapid technological change and obsolescence in the past, and our competitors have strong incentives to stop or delay the introduction of new products and technologies. We may pose a competitive threat to many of the companies in the stent and related markets. Accordingly, many of these companies will have a strong incentive to take steps, through patent litigation or otherwise, to prevent us from commercializing our products. Such litigation or claims would divert attention and resources away from the development and/or commercialization of our products and product development, and could result in an adverse court judgment that would make it impossible or impractical to sell our products in one or more territories.

If we fail to maintain or establish satisfactory agreements or arrangements with suppliers or if we experience an interruption of the supply of materials from suppliers, we may not be able to obtain materials that are necessary to develop our products.

We depend on outside suppliers for certain raw materials. These raw materials or components may not always be available at our standards or on acceptable terms, if at all, and we may be unable to locate alternative suppliers or produce necessary materials or components on our own.

Some of the components of our products are currently provided by only one vendor, or a single-source supplier. For MGuard Prime EPS and CGuard EPS, we depend on MeKo Laserstrahl-Materialbearbeitung for the laser cutting of the stent, Natec Medical Ltd. for the supply of catheters, and Biogeneral Inc. for the fiber. We may have difficulty obtaining similar components from other suppliers that are acceptable to the U.S. Food and Drug Administration or foreign regulatory authorities if it becomes necessary.

If we have to switch to a replacement supplier, we will face additional regulatory delays and the interruption of the manufacture and delivery of our stents for an extended period of time, which would delay completion of our clinical trials or commercialization of our products. In addition, we will be required to obtain prior regulatory approval from the U.S. Food and Drug Administration or foreign regulatory authorities to use different suppliers or components that may not be as safe or as effective. As a result, regulatory approval of our products may not be received on a timely basis or at all.

We may be exposed to product liability claims and insurance may not be sufficient to cover these claims.

We may be exposed to product liability claims based on the use of any of our products, or products incorporating our licensed technology, in the market or clinical trials. We may also be exposed to product liability claims based on the sale of any products under development following the receipt of regulatory approval. Product liability claims could be asserted directly by consumers, health-care providers or others. We have obtained product liability insurance coverage; however such insurance may not provide full coverage for our future clinical trials, products to be sold, and other aspects of our business. Insurance coverage is becoming increasingly expensive and we may not be able to maintain current coverage, or expand our insurance coverage to include future clinical trials or the sale of products incorporating our licensed technology if marketing approval is obtained for such products, at a reasonable cost or in sufficient amounts to protect against losses due to product liability or at all. A successful product liability claim or series of claims brought against us could result in judgments, fines, damages and liabilities that could have a material adverse effect on our business, financial condition and results of operations. We may incur significant expense investigating and defending these claims, even if they do not result in liability. Moreover, even if no judgments, fines, damages or liabilities are imposed on us, our reputation could suffer, which could have a material adverse effect on our business, financial condition and results of operations.

We face risks associated with litigation and claims.

We may, in the future, be involved in one or more lawsuits, claims or other proceedings. These suits could concern issues including contract disputes, employment actions, employee benefits, taxes, environmental, health and safety, personal injury and product liability matters.

There are two lawsuits filed against us or InspireMD Ltd., one filed by Microbanc, LLC and Todd Spenla of Microbanc, LLC in April 2016, seeking approximately \$2.2 million and 9% of the amount of stock and warrants sold in 2011 and 2012 in alleged damages relating to certain alleged finders' fees that they claim are owed, and another filed by Medpace Inc. in July 2016, seeking \$1,967,822 in damages plus interest, costs, attorneys' fees and expenses against InspireMD Ltd. See "Business — Legal Proceedings" for more information. Due to the uncertainties of litigation, however, we can give no assurance that we or InspireMD Ltd. will prevail on any claims made against us or InspireMD Ltd. in any such lawsuit. Also, we can give no assurance that any other lawsuits or claims brought in the future will not have an adverse effect on our financial condition, liquidity or operating results. Adverse outcomes in some or all of these claims may result in significant monetary damages that could adversely affect our ability to conduct our business.

The successful management of operations depends on our ability to attract and retain talented personnel.

We depend on the expertise of our senior management and research personnel, which would be difficult to replace. The loss of the services of any of our senior management could compromise our ability to achieve our objectives. Furthermore, recruiting and retaining qualified personnel will be crucial to future success. There can be no assurance that we will be able to attract and retain necessary personnel on acceptable terms given the competition among medical device, biotechnology, pharmaceutical and healthcare companies, universities and non-profit research institutions for experienced management, scientists, researchers, sales and marketing and manufacturing personnel. If we are unable to attract, retain and motivate our key personnel, our operations may be jeopardized and our results of operations may be materially and adversely affected.

We are an international business, and we are exposed to various global and local risks that could have a material adverse effect on our financial condition and results of operations.

We operate globally and develop and market products in multiple countries. Consequently, we face complex legal and regulatory requirements in multiple jurisdictions, which may expose us to certain financial and other risks. International sales and operations are subject to a variety of risks, including:

foreign currency exchange rate fluctuations;

greater difficulty in staffing and managing foreign operations;

greater risk of uncollectible accounts;

longer collection cycles;

logistical and communications challenges;

potential adverse changes in laws and regulatory practices, including export license requirements, trade barriers, tariffs and tax laws;

changes in labor conditions;

burdens and costs of compliance with a variety of foreign laws;

political and economic instability;

the escalation of hostilities in Israel, which could impair our ability to manufacture our products;

increases in duties and taxation;

foreign tax laws and potential increased costs associated with overlapping tax structures;

greater difficulty in protecting intellectual property;

the risk of third party disputes over ownership of intellectual property and infringement of third party intellectual property by our products; and

general economic and political conditions in these foreign markets.

Further, in the past, the State of Israel and Israeli companies have been subjected to an economic boycott. Several countries still restrict business and trade activity with the State of Israel and with Israeli companies. Since our principal operating subsidiary is an Israeli corporation, these restrictive laws and policies may have an adverse impact on our operating results, financial condition or the expansion of our business.

International markets are also affected by economic pressure to contain reimbursement levels and healthcare costs. Profitability from international operations may be limited by risks and uncertainties related to regional economic conditions, regulatory and reimbursement approvals, competing products, infrastructure development, intellectual property rights protection and our ability to implement our overall business strategy. We expect these risks will increase as we pursue our strategy to expand operations into new geographic markets. We may not succeed in developing and implementing effective policies and strategies in each location where we conduct business. Any failure to do so may harm our business, results of operations and financial condition.

If we fail to obtain an adequate level of reimbursement for our products by third party payors, there may be no commercially viable markets for our products or the markets may be much smaller than expected.

The availability and levels of reimbursement by governmental and other third party payors affect the market for our products. The efficacy, safety, performance and cost-effectiveness of our products and of any competing products will determine the availability and level of reimbursement. Reimbursement and healthcare payment systems in international markets vary significantly by country, and include both government sponsored healthcare and private insurance. To obtain reimbursement or pricing approval in some countries, we may be required to produce clinical data, which may involve one or more clinical trials, that compares the cost-effectiveness of our products to other available therapies. We may not obtain international reimbursement or pricing approvals in a timely manner, if at all. Our failure to receive international reimbursement or pricing approvals would negatively impact market acceptance of our products in the international markets in which those approvals are sought.

We believe that future reimbursement may be subject to increased restrictions both in the U.S. and in international markets. There is increasing pressure by governments worldwide to contain health care costs by limiting both the coverage and the level of reimbursement for therapeutic products and by refusing, in some cases, to provide any coverage for products that have not been approved by the relevant regulatory agency. Future legislation, regulation or reimbursement policies of third party payors may adversely affect the demand for our products and limit our ability to sell our products on a profitable basis. In addition, third party payors continually attempt to contain or reduce the costs of healthcare by challenging the prices charged for healthcare products and services. If reimbursement for our products is unavailable or limited in scope or amount or if pricing is set at unsatisfactory levels, market acceptance of our products would be impaired and future revenues, if any, would be adversely affected.

In the United States and in the European Union, our business could be significantly and adversely affected by healthcare reform legislation and other administration and legislative proposals.

The Patient Protection and Affordable Care Act and the Health Care and Education Reconciliation Act were enacted into law in the United States in March 2010 and are known collectively as the “Affordable Care Act.” Certain provisions of these acts are not yet fully implemented and it is unclear what the full impact will be from the legislation. The legislation levies a 2.3% excise tax, that began on January 1, 2013, on all sales of any U.S. medical device listed with the U.S. Food and Drug Administration under Section 510(j) of the Federal Food, Drug, and Cosmetic Act and 21 C.F.R. Part 807, unless the device falls within an exemption from the tax, such as the exemption governing direct retail sale of devices to consumers or for foreign sales of these devices. If we commence sales of our MGuard Prime EPS or CGuard EPS stent in the United States, this new tax may materially and adversely affect our business and results of operations. The legislation also focuses on a number of provisions aimed at improving quality, broadening access to health insurance, enhancing remedies for fraud and abuse, adding transparency requirements, and decreasing healthcare costs, among others. Uncertainties remain regarding what negative unintended consequences these provisions will have on patient access to new technologies, pricing and the market for our products, and the healthcare industry in general. The Affordable Care Act includes provisions affecting the Medicare program, such as value-based payment programs, increased funding of comparative effectiveness research, reduced hospital payments for avoidable readmissions and hospital acquired conditions, and pilot programs to evaluate alternative payment methodologies that promote care coordination (such as bundled physician and hospital payments). Additionally, the provisions include a reduction in the annual rate of inflation for hospitals which started in 2011 and the establishment of an independent payment advisory board to recommend ways of reducing the rate of growth in Medicare spending. Any reduction in reimbursement from Medicare or other government programs may result in a similar reduction in payments from private payors. Judicial challenges as well as legislative initiatives to modify, limit, or repeal the Affordable Care Act have been initiated and continue, including a recent Executive Order signed by the U.S. president directing executive departments and federal agencies to waive, defer, grant exemptions from, or delay the implementation of provisions of the Affordable Care Act that would impose a fiscal or regulatory burden on individuals and certain entities to the maximum extent permitted by law. The challenges to the Affordable Care Act and efforts to repeal or replace the legislation may increase in light of the change in presidential administrations and U.S. Congress. We cannot predict what healthcare programs and regulations will be implemented or changed at the federal or state level in the United States, or the effect of any future legislation or regulation. However, any changes that lower reimbursements for our products or reduce medical procedure volumes could adversely affect our business plan to introduce our products in the United States.

On September 26, 2012, the European Commission adopted a package of legislative proposals designed to replace the existing regulatory framework governing medical devices in the European Union. These proposals are currently being reviewed by the European Parliament and the Council and may undergo significant amendments as part of the legislative process. If adopted by the European Parliament and the Council in their present form, these proposed revisions would, among other things, impose stricter requirements on medical device manufacturers and strengthen the supervising competences of the competent authorities of European Union Member States and the notified bodies. As a result, if and when adopted, the proposed new legislation could prevent or delay the CE marking of our products under development or impact our ability to modify our currently CE marked products on a timely basis. The regulation of advanced therapy medicinal products is also in continued development in the European Union, with the European Medicines Agency publishing new clinical or safety guidelines concerning advanced therapy medicinal products on a regular basis. Any of these regulatory changes and events could limit our ability to form collaborations and our ability to continue to commercialize our products, and if we fail to comply with any such new or modified regulations and requirements it could adversely affect our business, operating results and prospects.

Risks Related to Operating in Israel

We anticipate being subject to fluctuations in currency exchange rates because we expect a substantial portion of our revenues will be generated in Euros and U.S. dollars, while a significant portion of our expenses will be incurred in New Israeli Shekels.

We expect a substantial portion of our revenues will be generated in U.S. dollars and Euros, while a significant portion of our expenses, principally salaries and related personnel expenses, is paid in New Israeli Shekels, or NIS. As a result, we are exposed to the risk that the rate of inflation in Israel will exceed the rate of devaluation of the NIS in relation to the Euro or the U.S. dollar, or that the timing of this devaluation will lag behind inflation in Israel. Because inflation has the effect of increasing the dollar and Euro costs of our operations, it would therefore have an adverse effect on our dollar-measured results of operations. The value of the NIS, against the Euro, the U.S. dollar, and other currencies may fluctuate and is affected by, among other things, changes in Israel's political and economic conditions. Any significant revaluation of the NIS may materially and adversely affect our cash flows, revenues and financial condition. Fluctuations in the NIS exchange rate, or even the appearance of instability in such exchange rate, could adversely affect our ability to operate our business.

If there are significant shifts in the political, economic and military conditions in Israel and its neighbors, it could have a material adverse effect on our business relationships and profitability.

Our sole manufacturing facility and certain of our key personnel are located in Israel. Our business is directly affected by the political, economic and military conditions in Israel and its neighbors. Since the establishment of the State of Israel in 1948, a number of armed conflicts have occurred between Israel and its Arab neighbors. A state of hostility, varying in degree and intensity, has caused security and economic problems in Israel. Although Israel has entered into peace treaties with Egypt and Jordan, and various agreements with the Palestinian Authority, there has been a marked increase in violence, civil unrest and hostility, including armed clashes, between the State of Israel and the Palestinians since September 2000. The establishment in 2006 of a government in the Gaza Strip by representatives of the Hamas militant group has created heightened unrest and uncertainty in the region. In mid-2006, Israel engaged in an armed conflict with Hezbollah, a Shiite Islamist militia group based in Lebanon, and in June 2007, there was an escalation in violence in the Gaza Strip. From December 2008 through January 2009 and again in November and December 2012, Israel engaged in an armed conflict with Hamas, which involved missile strikes against civilian targets in various parts of Israel and negatively affected business conditions in Israel. In July 2014, Israel launched an additional operation against Hamas operatives in the Gaza strip in response to Palestinian groups launching rockets at Israel. Recent political uprisings and social unrest in Syria are affecting its political stability, which has led to the deterioration of the political relationship between Syria and Israel and have raised new concerns regarding security in the region and the potential for armed conflict. Similar civil unrest and political turbulence is currently ongoing in many countries in the region. The continued political instability and hostilities between Israel and its neighbors and any future armed conflict, terrorist activity or political instability in the region could adversely affect our operations in Israel and adversely affect the market price of our shares of common stock. In addition, several countries restrict doing business with Israel and Israeli companies have been and are today subjected to economic boycotts. The interruption

or curtailment of trade between Israel and its present trading partners could adversely affect our business, financial condition and results of operations.

In addition, many of our officers or key employees may be called to active duty at any time under emergency circumstances for extended periods of time. See “— Our operations could be disrupted as a result of the obligation of certain of our personnel residing in Israel to perform military service.”

Our operations could be disrupted as a result of the obligation of certain of our personnel residing in Israel to perform military service.

Many of our officers and employees reside in Israel and may be required to perform annual military reserve duty. Currently, all male adult citizens and permanent residents of Israel under the age of 40 (or older, depending on their position with the Israeli Defense Forces reserves), unless exempt, are obligated to perform military reserve duty annually and are subject to being called to active duty at any time under emergency circumstances. Our operations could be disrupted by the absence for a significant period of one or more of our key officers and employees due to military service. Any such disruption could have a material adverse effect on our business, results of operations and financial condition.

We may not be able to enforce covenants not-to-compete under current Israeli law.

We have non-competition agreements with most of our employees, many of which are governed by Israeli law. These agreements generally prohibit our employees from competing with us or working for our competitors for a specified period following termination of their employment. However, Israeli courts are reluctant to enforce non-compete undertakings of former employees and tend, if at all, to enforce those provisions for relatively brief periods of time in restricted geographical areas and only when the employee has unique value specific to that employer's business and not just regarding the professional development of the employee. Any such inability to enforce non-compete covenants may cause us to lose any competitive advantage resulting from advantages provided to us by such confidential information.

We may become subject to claims for remuneration or royalties for assigned service invention rights by our employees, which could result in litigation and adversely affect our business.

A significant portion of our intellectual property has been developed by our Israeli employees in the course of their employment for us. Under the Israeli Patent Law, 5727-1967 (the "Israeli Patent Law"), inventions conceived by an employee during the term and as part of the scope of his or her employment with a company are regarded as "service inventions," which belong to the employer, absent a specific agreement between the employee and employer giving the employee service invention rights. The Israeli Patent Law also provides that if there is no such agreement between an employer and an employee, the Israeli Compensation and Royalties Committee (the "C&R Committee"), a body constituted under the Israeli Patent Law, shall determine whether the employee is entitled to remuneration for his inventions. The C&R Committee (decisions of which have been upheld by the Israeli Supreme Court) has held that employees may be entitled to remuneration for their service inventions despite having specifically waived any such rights. Further, the C&R Committee has not yet set specific guidelines regarding the method for calculating this remuneration or the criteria or circumstances under which an employee's waiver of his right to remuneration will be disregarded. We generally enter into intellectual property assignment agreements with our employees pursuant to which such employees assign to us all rights to any inventions created in the scope of their employment or engagement with us. Although our employees have agreed to assign to us service invention rights and have specifically waived their right to receive any special remuneration for such assignment beyond their regular salary and benefits, we may face claims demanding remuneration in consideration for assigned inventions. As a consequence of such claims, we could be required to pay additional remuneration or royalties to our current or former employees, or be forced to litigate such claims, which could negatively affect our business.

It may be difficult for investors in the United States to enforce any judgments obtained against us or some of our directors or officers.

The majority of our assets other than cash are located outside the U.S. In addition, certain of our officers are nationals and/or residents of countries other than the U.S., and all or a substantial portion of such persons' assets are located

outside the U.S. As a result, it may be difficult for investors to enforce within the United States any judgments obtained against us or any of our non-U.S. officers, including judgments predicated upon the civil liability provisions of the securities laws of the U.S. or any state thereof. Additionally, it may be difficult to assert U.S. securities law claims in actions originally instituted outside of the U.S. Israeli courts may refuse to hear a U.S. securities law claim because Israeli courts may not be the most appropriate forums in which to bring such a claim. Even if an Israeli court agrees to hear a claim, it may determine that the Israeli law, and not U.S. law, is applicable to the claim. Further, if U.S. law is found to be applicable, certain content of applicable U.S. law must be proved as a fact, which can be a time-consuming and costly process, and certain matters of procedure would still be governed by the Israeli law. Consequently, you may be effectively prevented from pursuing remedies under U.S. federal and state securities laws against us or any of our non-U.S. directors or officers.

The tax benefits that are currently available to us under Israeli law require us to satisfy specified conditions. If we fail to satisfy these conditions, we may be required to pay increased taxes and would likely be denied these benefits in the future.

InspireMD Ltd. has been granted a “Beneficiary Enterprise” status by the Investment Center in the Israeli Ministry of Industry Trade and Labor, and we are therefore eligible for tax benefits under the Israeli Law for the Encouragement of Capital Investments, 1959. The main benefit is a two-year exemption from corporate tax, commencing when we begin to generate net income derived from the beneficiary activities in facilities located in Israel, and a reduced corporate tax rate for an additional five years, depending on the level of foreign investment in each year. In addition, under the January 1, 2011 amendment to the Israeli Law for the Encouragement of Capital Investments, 1959, a uniform corporate tax rate of 16% applies to all qualifying income of “Preferred Enterprise,” which we may be able to apply as an alternative tax benefit.

The tax benefits available to a Beneficiary Enterprise or a Preferred Enterprise are dependent upon the fulfillment of conditions stipulated under the Israeli Law for the Encouragement of Capital Investments, 1959 and its regulations, as amended, which include, among other things, maintaining our manufacturing facilities in Israel. If we fail to comply with these conditions, in whole or in part, the tax benefits could be cancelled and we could be required to refund any tax benefits that we received in the past. If we are no longer eligible for these tax benefits, our Israeli taxable income would be subject to regular Israeli corporate tax rates. The standard corporate tax rate for Israeli companies in 2016 is 25% and in 2017 is 24% of taxable income. The termination or reduction of these tax benefits would increase our tax liability, which would reduce our profits.

In addition to losing eligibility for tax benefits currently available to us under Israeli law, if we do not maintain our manufacturing facilities in Israel, we will not be able to realize certain tax credits and deferred tax assets, if any, including any net operating losses to offset against future profits.

The tax benefits available to Beneficiary Enterprises may be reduced or eliminated in the future. This would likely increase our tax liability.

The Israeli government may reduce or eliminate in the future tax benefits available to Beneficiary Enterprises and Preferred Enterprises. Our Beneficiary Enterprise status and the resulting tax benefits may not continue in the future at their current levels or at any level. The 2011 amendment regarding Preferred Enterprise may not be applicable to us or may not fully compensate us for the change. The termination or reduction of these tax benefits would likely increase our tax liability. The amount, if any, by which our tax liability would increase will depend upon the rate of any tax increase, the amount of any tax benefit reduction, and the amount of any taxable income that we may earn in the future.

Risks Related to Our Organization and Our Common Stock, Preferred Stock, Warrants and this Offering

The market prices of our common stock and our publicly traded warrants are subject to fluctuation and have been and may continue to be volatile, which could result in substantial losses for investors.

The market prices of our common stock and our Series A Warrants have been and are likely to continue to be highly volatile and could fluctuate widely in response to various factors, many of which are beyond our control, including the following:

technological innovations or new products and services by us or our competitors;

additions or departures of key personnel;
our ability to execute our business plan;
operating results that fall below expectations;
loss of any strategic relationship;
industry developments;
economic, political and other external factors; and
period-to-period fluctuations in our financial results.

In addition, the securities markets have from time to time experienced significant price and volume fluctuations that are unrelated to the operating performance of particular companies. These market fluctuations may also significantly affect the market prices of our common stock and our publicly traded warrants.

If you purchase the securities sold in this offering, and assuming conversion of the Preferred Stock into shares of our common stock, you will experience immediate and substantial dilution in your investment.

Since the price per share of our Preferred Stock being offered in this offering exceeds the net tangible book value per share of our common stock outstanding prior to this offering, you will suffer immediate and substantial dilution with respect to the net tangible book value of the Preferred Stock included in the units you purchase in this offering, assuming conversion of the Preferred Stock into shares of our common stock. After giving effect to (i) the sale by us of 1,171,875 units covered by this prospectus at \$6.40 per unit, and deducting estimated placement agent fees and other estimated offering expenses payable by us and assuming conversion of the Preferred Stock into shares of our common stock at the conversion price of \$1.60 per share of common stock, and (ii) the issuance of 9,063,314 additional shares of common stock that we will be required to issue to the holders of our Series B Convertible Preferred Stock upon conversion of the Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock because the effective common stock purchase price in this offering is less than the current Series B Convertible Preferred Stock conversion price of \$8.25 (see “Risk Factors — Risks Related to Our Organization and Our Common Stock, Preferred Stock, Warrants and this Offering—Because the effective common stock purchase price in this offering is less than the current Series B Convertible Preferred Stock conversion price of \$8.25, we will be required to issue additional shares of common stock to the holders of our Series B Convertible Preferred Stock upon conversion of the Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, which will be dilutive to all of our other stockholders, including new investors in this offering.”), you will experience immediate dilution of \$0.90 per share of common stock, representing the difference between our as adjusted net tangible book value per share of common stock as of December 31, 2016, and the conversion price of the Preferred Stock. If any outstanding options or warrants are exercised, you could experience further dilution. For the purpose of this calculation, the entire purchase price for the units is being allocated to the shares of Preferred Stock, and shares issuable upon exercise of the Warrants have not been included. Furthermore, the exercise of outstanding warrants and options may result in further dilution of your investment. See the section entitled “Dilution” on page 34 for a more detailed illustration of the dilution you will incur if you participate in this offering.

A continued low trading price could lead the NYSE MKT to take actions toward delisting our common stock, including immediately suspending trading in our common stock.

Pursuant to Section 1003(f)(v) of the NYSE MKT Company Guide (the “Company Guide”), the NYSE MKT could take action to delist our common stock in the event that our common stock trades at levels viewed as abnormally low for a substantial period of time. In addition, the NYSE MKT has advised us that its policy is to immediately suspend trading in shares of, and commence delisting procedures with respect to, a listed company if the market price of its shares falls below \$0.06 per share at any time during the trading day. For much of the several months prior to the 1-for-25 reverse stock split of our common stock which became effective as of October 7, 2016, our common stock had traded at prices less than \$1.00. Since we effected the reverse stock split, the closing price of our common stock on the NYSE MKT has been above \$1.00, but there is no assurance that our stock will not trade at levels viewed as abnormally low for a substantial period of time and lead the NYSE MKT to immediately suspend trading in our

common stock. Dilution caused by the issuance of the securities offered in this offering or the offers or availability for sale of a substantial number of our common stock or securities convertible into our common stock may cause the price of our common stock to trade at prices less than \$1.00.

Because the effective common stock purchase price in this offering is less than the current Series B Convertible Preferred Stock conversion price of \$8.25, we will be required to issue additional shares of common stock to the holders of our Series B Convertible Preferred Stock upon conversion of the Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, which will be dilutive to all of our other stockholders, including new investors in this offering.

The certificate of designation for our Series B Convertible Preferred Stock contains anti-dilution provisions, pursuant to which, in the event that, while any of our Series B Convertible Preferred Stock is outstanding, we issue equity or equity-linked securities at an effective common stock purchase price of less than the Series B Convertible Preferred Stock conversion price then in effect, we are required, subject to certain limitations and adjustments as provided in the certificate of designation, to reduce the Series B Convertible Preferred Stock conversion price to equal the effective common stock purchase price. This reduction in the Series B Convertible Preferred Stock conversion price will result in a greater number of shares of common stock being issuable upon conversion of the Series B Convertible Preferred Stock or the payment of any dividends thereunder in shares of common stock for no additional consideration. In accordance with this anti-dilution price protection, because the effective common stock purchase price in this offering is below the current Series B Convertible Preferred Stock conversion price of \$8.25 per share of common stock, it will result in the issuance of additional shares of common stock to the holders of our Series B Convertible Preferred Stock upon conversion of the Series B Convertible Preferred Stock or the payment of any dividends' thereunder in shares of common stock, which will be dilutive to all of our other stockholders, including new investors in this offering. Based on the Preferred Stock conversion price of \$1.60 per share of common stock and 311,521 shares of Series B Convertible Preferred Stock outstanding as of March 8, 2017, we would be required to issue 9,063,314 additional shares of common stock to the holders of Series B Convertible Preferred Stock upon conversion of the Series B Convertible Preferred Stock.

Because there is no minimum required for the offering to close, investors in this offering will not receive a refund in the event that we do not sell an amount of securities sufficient to pursue the business goals outlined in this prospectus.

We have not specified a minimum offering amount nor have or will we establish an escrow account in connection with this offering. Because there is no escrow account and no minimum offering amount, investors could be in a position where they have invested in our company, but we are unable to fulfill our objectives due to a lack of interest in this offering. Further, because there is no escrow account in operation and no minimum investment amount, any proceeds from the sale of securities offered by us will be available for our immediate use, despite uncertainty about whether we would be able to use such funds to effectively implement our business plan. Investor funds will not be returned under any circumstances whether during or after the offering.

Our management team may invest or spend the proceeds of this offering in ways with which you may not agree or in ways which may not yield a significant return.

Our management will have broad discretion over the use of proceeds from this offering. We intend to use the net proceeds of this offering to further fund the expansion of our sales and marketing activities for CGuard EPS and MGuard Prime EPS. If we receive sufficient proceeds from the exercise of the Series C Warrants, we plan to continue the development of and manufacturing enhancements for CGuard EPS and further our efforts to obtain an IDE approval for CGuard EPS and for general corporate purposes. However, our management will have broad discretion in the application of the net proceeds from this offering and could spend the proceeds in ways that do not improve our results of operations or enhance the value of our common stock. The failure by management to apply these funds effectively could result in financial losses that could have a material adverse effect on our business, cause the price of our common stock to decline and delay the development of our product candidates.

Purchasers in this offering may experience additional dilution in the book value of their investment in the future.

We are not restricted from issuing additional securities in the future, including shares of common stock, securities that are convertible into or exchangeable for, or that represent the right to receive, common stock or substantially similar securities. The issuance of these securities may cause further dilution to our stockholders. In order to raise additional capital, we may in the future offer such additional securities at prices that may not be the same as the price per share in this offering. We cannot assure you that we will be able to sell shares or other securities in any other offering at a price per share that is equal to or greater than the price per share paid by investors in this offering, and investors purchasing shares or other securities in the future could have rights superior to existing stockholders, including investors who purchase securities in this offering. The price per share at which we sell additional shares of our common stock or securities convertible into common stock in future transactions may be higher or lower than the price per share in this offering. The exercise of outstanding stock options and the vesting of outstanding restricted stock units may also result in further dilution of your investment.

Because our offering will be conducted on a best efforts basis, there can be no assurance that we can raise the money we need.

The placement agent is offering the securities on a “best efforts” basis with no minimum, and the placement agent is under no obligation to purchase any securities for their own account. The placement agent is not required to sell any specific number or dollar amount of securities in this offering but will use its best efforts to sell the securities offered in this prospectus. As a “best efforts” offering, there can be no assurance that the offering contemplated hereby will ultimately be consummated. If the offering is not consummated or we receive less than the maximum proceeds, our business plans and prospects for the current fiscal year could be adversely affected.

There is no public market for the Preferred Stock or the Warrants included in the units being offered in this offering.

The Preferred Stock and the Warrants are new issues of securities with no established trading market. Following completion of this offering, we intend to apply to list the Series B Warrants on the NYSE MKT. No assurance can be given that such listing will be approved. An active trading market for the Series B Warrants may not develop following the completion of this offering or, if developed, may not be sustained. Neither the Preferred Stock nor the Series C Warrants will be listed on any securities exchange and we do not expect the Preferred Stock or the Series C Warrants to be quoted on any quotation system. There is no established trading market for the Preferred Stock or the Warrants. In addition, because our publicly-traded Series A Warrants recently commenced trading on the NYSE MKT, there is a limited trading history from which you can make an investment decision to purchase the Warrants. A trading market for neither the Preferred Stock nor the Series C Warrants is expected to develop, and even if a market develops for the Preferred Stock or the Series C Warrants, it may not provide meaningful liquidity. The absence of a trading market or liquidity for the Preferred Stock or the Warrants may adversely affect their value.

The certificate of designation for the Series B Convertible Preferred Stock and the Preferred Stock contains anti-dilution provisions that may result in the reduction of the conversion price in the future. This feature may result in an indeterminate number of shares of common stock being issued upon conversion of the Series B Convertible Preferred Stock or the Preferred Stock. Sales of these shares will dilute the interests of other security holders and may depress the price of our common stock.

The respective certificate of designation for our Series B Convertible Preferred Stock and Preferred Stock contains anti-dilution provisions, which provisions require the lowering of the applicable conversion price, as then in effect, to the purchase price of equity or equity-linked securities issued in subsequent offerings. If in the future, while any of our Series B Convertible Preferred Stock or Preferred Stock is outstanding, we issue securities at an effective common stock purchase price of less than the applicable conversion price of our Series B Convertible Preferred Stock or Preferred Stock, as then in effect, we will be required, subject to certain limitations and adjustments as provided in the respective certificate of designation for the Series B Convertible Preferred Stock and the Preferred Stock, to further

reduce the relevant conversion price, which will result in a greater number of shares of common stock being issuable upon conversion of the Series B Convertible Preferred Stock or the Preferred Stock, which in turn will have a greater dilutive effect on our shareholders. In addition, as there is no floor price on the conversion price, we cannot determine the total number of shares issuable upon conversion. As such, it is possible that we will not have a sufficient number of available shares to satisfy the conversion of the Series B Convertible Preferred Stock or the Preferred Stock if we enter into a future transaction that reduces the applicable conversion price. If we do not have a sufficient number of available shares for any Series B Convertible Preferred Stock or Preferred Stock conversions, we will be required to increase our authorized shares, which may not be possible and will be time consuming and expensive. The potential for such additional issuances may depress the price of our common stock regardless of our business performance. We may find it more difficult to raise additional equity capital while any of our Series B Convertible Preferred Stock or Preferred Stock is outstanding.

The Series B Convertible Preferred Stock provides for the payment of dividends in cash or in shares of our common stock, and we may not be permitted to pay such dividends in cash, which will require us to have shares of common stock available to pay the dividends.

Each share of the Series B Convertible Preferred Stock is entitled to receive cumulative dividends at the rate per share of 15% per annum of the stated value per share, until the fifth anniversary of the date of issuance of the Series B Convertible Preferred Stock. The dividends are payable, at our discretion, in cash, out of any funds legally available for such purpose, or in pay-in-kind shares of common stock calculated based on the conversion price, subject to adjustment as provided in the certificate of designation for the Series B Convertible Preferred Stock. The conversion price is subject to reduction if in the future we issue securities for less than the conversion price of our Series B Convertible Preferred Stock, as then in effect. As there is no floor price on the conversion price, we cannot determine the total number of shares issuable upon conversion or in connection with the dividend. As such, it is possible that we will not have a sufficient number of available shares to pay the dividend in common stock, which would require the payment of the dividend in cash. We will not be permitted to pay the dividend in cash unless we are legally permitted to do so under Delaware law, which requires cash to be available from surplus or net profits, which may not be available at the time payment is due. Additionally, we are also subject to certain restrictions pursuant to our loan and security agreement with Hercules, which prohibits us from paying cash dividends or distributions on our capital stock. As such, we do not expect to have cash available to pay the dividends on our Series B Convertible Preferred Stock or to be permitted to make such payments under our loan agreements, and will be relying on having available shares of common stock to pay such dividends, which will result in dilution to our shareholders. If we do not have such available shares, we may not be able to satisfy our dividend obligations.

We are subject to financial reporting and other requirements that place significant demands on our resources.

We are subject to reporting and other obligations under the Securities Exchange Act of 1934, as amended, including the requirements of Section 404 of the Sarbanes-Oxley Act of 2002. Section 404 requires us to conduct an annual management assessment of the effectiveness of our internal controls over financial reporting. These reporting and other obligations place significant demands on our management, administrative, operational, internal audit and accounting resources. Any failure to maintain effective internal controls could have a material adverse effect on our business, operating results and stock price. Moreover, effective internal control is necessary for us to provide reliable financial reports and prevent fraud. If we cannot provide reliable financial reports or prevent fraud, we may not be able to manage our business as effectively as we would if an effective control environment existed, and our business and reputation with investors may be harmed.

There are inherent limitations in all control systems, and misstatements due to error or fraud may occur and not be detected.

The ongoing internal control provisions of Section 404 of the Sarbanes-Oxley Act of 2002 require us to identify material weaknesses in internal control over financial reporting, which is a process to provide reasonable assurance regarding the reliability of financial reporting for external purposes in accordance with accounting principles generally accepted in the United States. Our management, including our chief executive officer and chief financial officer, does not expect that our internal controls and disclosure controls will prevent all errors and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. In addition, the design of a control system must reflect the fact that there are resource constraints and the benefit of controls must be relative to their costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, in our company have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty and that breakdowns can occur because of simple errors or mistakes. Further, controls can be circumvented by individual acts of some persons, by collusion of two or more persons, or by management override of the controls. The design of any system of controls is also based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, a control may be inadequate because of changes in conditions, such as growth of the company or increased transaction volume, or the degree of compliance with the policies or procedures may deteriorate. Because of inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected.

In addition, discovery and disclosure of a material weakness, by definition, could have a material adverse impact on our financial statements. Such an occurrence could discourage certain customers or suppliers from doing business with us and adversely affect how our stock trades. This could in turn negatively affect our ability to access equity markets for capital.

Delaware law and our corporate charter and bylaws contain anti-takeover provisions that could delay or discourage takeover attempts that stockholders may consider favorable.

Our board of directors is authorized to issue shares of preferred stock in one or more series and to fix the voting powers, preferences and other rights and limitations of the preferred stock. Accordingly, we may issue shares of preferred stock with a preference over our common stock with respect to dividends or distributions on liquidation or dissolution, or that may otherwise adversely affect the voting or other rights of the holders of common stock. Issuances of preferred stock, depending upon the rights, preferences and designations of the preferred stock, may have the effect of delaying, deterring or preventing a change of control, even if that change of control might benefit our stockholders. In addition, we are subject to Section 203 of the Delaware General Corporation Law. Section 203 generally prohibits a public Delaware corporation from engaging in a “business combination” with an “interested stockholder” for a period of three years after the date of the transaction in which the person became an interested stockholder, unless (i) prior to the date of the transaction, the board of directors of the corporation approved either the business combination or the transaction which resulted in the stockholder becoming an interested stockholder; (ii) the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding for purposes of determining the number of shares outstanding (a) shares owned by persons who are directors and also officers and (b) shares owned by 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 (iii) on or subsequent to the date of the transaction, the business combination is approved by the board and authorized at an annual or special meeting of stockholders, and not by written consent, by the affirmative vote of at least 66 2/3% of the outstanding voting stock which is not owned by the interested stockholder.

Section 203 could delay or prohibit mergers or other takeover or change in control attempts with respect to us and, accordingly, may discourage attempts to acquire us even though such a transaction may offer our stockholders the opportunity to sell their stock at a price above the prevailing market price.

Offers or availability for sale of a substantial number of shares of our common stock may cause the price of our publicly traded securities to decline.

Sales of a significant number of shares of our common stock or our warrants in the public market could harm the market prices of our common stock or warrants and make it more difficult for us to raise funds through future offerings of common stock or warrants. Our stockholders and the holders of our options and warrants may sell substantial amounts of our common stock or our publicly traded warrants in the public market. In addition, we will be required to issue additional shares of common stock to the holders of our Series B Convertible Preferred Stock upon conversion of shares of our Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock because the effective common stock purchase price in this offering is less than the current Series B Convertible Preferred Stock conversion price of \$8.25, which in turn will increase the number of shares of common stock available for sale. See “Risk Factors — Risks Related to Our Organization and Our Common Stock, Preferred Stock, Warrants and this Offering—Because the effective common stock purchase price in this offering is less than the current Series B Convertible Preferred Stock conversion price of \$8.25, we will be required to issue additional shares of common stock to the holders of our Series B Convertible Preferred Stock upon conversion of the Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, which will be dilutive to all of our other stockholders, including new investors in this offering.”

In addition, the fact that our stockholders, option holders and warrant holders or the placement agent can sell substantial amounts of our common stock or our publicly traded warrants in the public market, whether or not sales have occurred or are occurring, could make it more difficult for us to raise additional financing through the sale of equity or equity-related securities in the future at a time and price that we deem reasonable or appropriate, or at all.

No industry analyst publishes research about our business.

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. Because no industry analyst publishes research about us, we could lose visibility in the financial markets, which in turn could cause our stock price or trading volume to decline.

Aspects of the tax treatment of the securities may be uncertain.

The tax treatment of our preferred stock and our warrants is uncertain and may vary depending upon whether you are an individual or a legal entity and whether or not you are domiciled in the United States. In the event you are a non-U.S. investor, you should consult your tax advisors as to the consequences, under the tax laws of the country where you are resident for tax purposes, of acquiring, holding and disposing of our preferred stock and our warrants.

Risks Related to our Indebtedness

Our obligations under our outstanding term loan are secured by all of our assets, so if we default on those obligations, the lender could foreclose on our assets. As a result of these security interests, such assets would only be available to satisfy claims of our general creditors or to holders of our equity securities if we were to become insolvent at a time when the value of such assets exceeded the amount of our indebtedness and other obligations. In addition, the existence of these security interests may adversely affect our financial flexibility.

Hercules, the lender under our term loan has a security interest in all of our assets and those of InspireMD Ltd., our wholly-owned subsidiary. As a result, if we default under our obligations to the lender, the lender could foreclose on its security interests and liquidate some or all of these assets, which would harm our business, financial condition and results of operations. The current principal amount of the term loan as of March 3, 2017, was approximately \$1.1 million.

In the event of a default in connection with our bankruptcy, insolvency, liquidation, or reorganization, the lender would have a prior right to substantially all of our assets to the exclusion of our general creditors. In that event, our assets would first be used to repay in full all indebtedness and other obligations secured by the lender, resulting in all or a portion of our assets being unavailable to satisfy the claims of any unsecured indebtedness. Only after satisfying the claims of any unsecured creditors would any amount be available for our equity holders.

The pledge of these assets and other restrictions may limit our flexibility in raising capital for other purposes. Because substantially all of our assets are pledged under the term loan, our ability to incur additional secured indebtedness or to sell or dispose of assets to raise capital may be impaired, which could have an adverse effect on our financial flexibility.

Our loan and security agreement contains customary events of default. In addition, an event of default will include the occurrence of a circumstance that would reasonably be expected to have a material adverse effect upon (i) our

business, operations, properties, assets, prospects or condition (financial or otherwise), (ii) our ability to perform our obligations under the agreement and any related loan documents or (iii) the collateral, the lender's liens on the collateral or the priority of such liens.

Our outstanding term loan obligations may adversely affect our cash flow and our ability to operate our business.

Pursuant to the terms of our loan and security agreement, the lender made a term loan to us and InspireMD Ltd. in aggregate amount of \$10 million. We are required to make monthly payments of interest and principal in the amount of approximately \$380,000 per month. The current principal amount of the loan as of March 3, 2017 was approximately \$1.1 million. The term loan under the loan and security agreement, as amended, matures on June 1, 2017.

The terms of our term loan could have negative consequences to us, such as:

we may be unable to obtain additional financing to fund working capital, operating losses, capital expenditures or acquisitions on terms acceptable to us, or at all;

the amount of our interest expense may increase because our term loan has a variable rate of interest at any time that the prime rate, as reported in the Wall Street Journal, is above 5.5%; and

we may be more vulnerable to economic downturns and adverse developments in our industry or the economy in general.

Our ability to meet our expenses and debt obligations will depend on our future performance, which will be affected by financial, business, economic, regulatory and other factors. We will be unable to control many of these factors, such as economic conditions. We cannot be certain that we will continue to have sufficient capital to allow us to pay the principal and interest on our debt and meet any other obligations. If we do not have enough money to service our debt, we may be required, but unable to refinance all or part of our existing debt, sell assets, borrow money or raise equity on terms acceptable to us, if at all, and the lender could foreclose on its security interests and liquidate some or all of our assets.

Our loan and security agreement contains covenants that could limit our financing options and liquidity position, which would limit our ability to grow our business.

Covenants in our loan and security agreement impose operating and financial restrictions on us. These restrictions prohibit or limit our ability, and the ability of InspireMD Ltd., to, among other things:

pay cash dividends to our stockholders;

redeem or repurchase our common stock or other equity;

incur additional indebtedness;

permit liens on assets;

make certain investments (including through the acquisition of stock, shares, partnership or limited liability company interests, any loan, advance or capital contribution);

sell, lease, license, lend or otherwise convey an interest in a material portion of our assets; and

cease making public filings under the Securities Exchange Act of 1934, as amended.

These restrictions may limit our ability to obtain additional financing, withstand downturns in our business or take advantage of business opportunities. Moreover, additional debt financing we may seek, if permitted, may contain terms that include more restrictive covenants, may require repayment on an accelerated schedule or may impose other obligations that limit our ability to grow our business, acquire needed assets, or take other actions we might otherwise consider appropriate or desirable.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and the information incorporated by reference herein and therein contain “forward-looking statements,” which include information relating to future events, future financial performance, strategies, expectations, competitive environment and regulation. Words such as “may,” “should,” “could,” “would,” “predicts,” “potential,” “continue,” “expects,” “anticipates,” “future,” “intends,” “plans,” “believes,” “estimates,” and similar expressions, as well as statements in future tense identify forward-looking statements. Forward-looking statements should not be read as a guarantee of future performance or results and will probably not be accurate indications of when such performance or results will be achieved. Forward-looking statements are based on information we have when those statements are made or our management’s good faith belief as of that time with respect to future events, and are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in or suggested by the forward-looking statements. Important factors that could cause such differences include, but are not limited to:

our history of recurring losses and negative cash flows from operating activities, significant future commitments and the uncertainty regarding the adequacy of our liquidity to pursue our complete business objectives, and substantial doubt regarding our ability to continue as a going concern;

our need to raise additional capital to meet our business requirements in the future and such capital raising may be costly or difficult to obtain and could dilute our stockholders’ ownership interests;

our ability to generate revenues from our products and obtain and maintain regulatory approvals for our products;

our ability to adequately protect our intellectual property;

our dependence on a single manufacturing facility and our ability to comply with stringent manufacturing quality standards and to increase production as necessary;

the risk that the data collected from our current and planned clinical trials may not be sufficient to demonstrate that our technology is an attractive alternative to other procedures and products;

market acceptance and adoption of our products;

intense competition in our industry, with competitors having substantially greater financial, technological, research and development, regulatory and clinical, manufacturing, marketing and sales, distribution and personnel resources than we do;

entry of new competitors and products and potential technological obsolescence of our products;

loss of a key customer or supplier;

technical problems with our research and products and potential product liability claims;

adverse economic conditions;

insufficient or inadequate reimbursement by governmental and other third party payers for our products;

adverse federal, state and local government regulation, in the United States, Europe or Israel and other foreign jurisdictions;

price increases for supplies and components;

inability to carry out research, development and commercialization plans; and

loss or retirement of key executives and research scientists.

The foregoing does not represent an exhaustive list of matters that may be covered by the forward-looking statements contained herein or risk factors that we are faced with that may cause our actual results to differ from those anticipated in our forward-looking statements. You should review carefully the section entitled “Risk Factors” beginning on page 8 of this prospectus for a discussion of these and other risks that relate to our business and investing in our securities. The forward-looking statements contained or incorporated by reference in this prospectus are expressly qualified in their entirety by this cautionary statement. We do not undertake any obligation to publicly update any forward-looking statement to reflect events or circumstances after the date on which any such statement is made or to reflect the occurrence of unanticipated events.

USE OF PROCEEDS

We estimate that the net proceeds from the sale of the units offered under this prospectus, after deducting estimated placement agent fees and other estimated offering expenses payable by us, will be \$6,675,500, if we sell the maximum amount of units offered hereby. However, this is a best efforts offering with no minimum, and we may not sell all or any of the securities; as a result, we may receive significantly less in net proceeds, and the net proceeds received may not be sufficient to continue to operate our business. If any of the Warrants included in units sold in this offering is exercised, we may also receive proceeds from the exercise of the Warrants. If all of the Series B Warrants were to be exercised in cash at the exercise price of \$2.00 per share of common stock, we would receive additional net proceeds of approximately \$9,375,000. If all of the Series C Warrants were to be exercised in cash at the exercise price of \$1.60 per share of common stock, we would receive additional net proceeds of approximately \$7,275,000. We cannot predict when or if the Warrants will be exercised. It is possible that the Warrants may expire and may never be exercised.

On July 7, 2016, we closed a public offering of shares of Series B Convertible Preferred Stock and Series A Warrants, pursuant to which we received net proceeds of approximately \$13.1 million. The net proceeds from this offering provided us with the capital to operate our business since the time of that offering, to revise our sales force strategy and to further the clinical development of our products. In particular,

we hired a new chief commercial officer in October 2016 to analyze and revise, as necessary, our sales strategy for our products;

we expanded our sales and marketing forces, which were reduced in 2015 pursuant to cost cutting initiatives; and

we began participating in industry conferences and other promotional activities.

We also used a portion of the proceeds from the July 2016 offering to further develop the clinical protocol synopsis for CGuard EPS in order to ultimately seek the U.S. Food and Drug Administration approval for commercial sales in the United States.

While the proceeds from the July 2016 offering enabled us to make important investments in the future growth of the company, the proceeds were not sufficient for us fully accomplish our goals. In addition, based upon our anticipated expenses, we currently expect to run out funds within six months from the date of this prospectus.

As such, we intend to use the net proceeds from the sale of the units offered in this offering to further fund the expansion of our sales and marketing activities for CGuard EPS and MGuard Prime EPS, including the recruitment of more distributor and sales representatives.

If we receive sufficient proceeds from the exercise of the Series C Warrants, together with any balance from the net proceeds from the sale of the units, we intend to use the net proceeds from the exercise of the Series C Warrants for the following activities:

to continue the development of and manufacturing enhancements for CGuard EPS, including developing CGuard EPS with a smaller delivery catheter (5 French gauge), which, we believe, will enable us to meet the market demand for minimally invasive devices, have a competitive advantage in penetrating the Asia Pacific market and offer our product for transradial catheterization, which, we believe, is gaining favor among interventionalists; and

to further our efforts to obtain an IDE approval for CGuard EPS, to ultimately seek the U.S. Food and Drug Administration approval for commercial sales in the United States.

We expect to use any balance of the foregoing and any additional proceeds from exercise of the Warrants, if any, for operations and general working capital requirements.

Investors are cautioned, however, that expenditures may vary substantially from these uses. Investors will be relying on the judgment of our management, who will have broad discretion regarding the application of the proceeds of this offering. The amounts and timing of our actual expenditures will depend upon numerous factors, including the amount of cash generated by our operations, the amount of competition we face and other operational factors. We may find it necessary or advisable to use portions of the proceeds from this offering for other purposes.

From time to time, we evaluate these and other factors and we anticipate continuing to make such evaluations to determine if the existing allocation of resources, including the proceeds of this offering, is being optimized. Circumstances that may give rise to a change in the use of proceeds include:

a change in development plan or strategy;

the addition of new products or applications;

technical delays;

delays or difficulties with our clinical trials;

negative results from our clinical trials;

difficulty obtaining regulatory approval;

failure to achieve sales as anticipated; and

the availability of other sources of cash including cash flow from operations and new bank debt financing arrangements, if any.

Until we use the net proceeds of this offering, we will hold such funds in cash or invest the funds in short-term, investment grade, interest-bearing securities.

PRICE RANGE OF OUR COMMON STOCK

Our common stock has been quoted on the NYSE MKT since April 11, 2013 under the symbol “NSPR”

The following table sets forth the intra-day high and low sales price per share for our common stock, as reported on the NYSE MKT, for the periods indicated. The sales prices for our common stock are adjusted for the 1-for-10 reverse stock split of our common stock that occurred on October 1, 2015 and the 1-for-25 reverse stock split of our common stock that occurred on October 7, 2016:

| | Common Stock | |
|---|---------------------|------------|
| | High | Low |
| Fiscal Year Ending December 31, 2017 | | |
| First quarter (through March 8, 2017) | \$3.97 | \$1.87 |
| Fiscal Year Ending December 31, 2016 | | |
| Fourth quarter | \$4.39 | \$1.41 |
| Third quarter | \$7.50 | \$1.75 |
| Second quarter | \$15.50 | \$7.75 |
| First quarter | \$23.75 | \$9.75 |
| Fiscal Year Ended December 31, 2015 | | |
| Fourth quarter | \$53.00 | \$15.75 |
| Third quarter | \$80.00 | \$37.50 |
| Second quarter | \$105.00 | \$47.50 |
| First quarter | \$252.50 | \$57.50 |

The closing price of our common stock on the NYSE MKT on March 8, 2017, was \$1.97 per share. Immediately prior to this offering, we had 1,472,606 issued and outstanding shares of common stock, which were held by approximately 237 holders of record.

DIVIDEND POLICY

In the past, we have not declared or paid cash dividends on our capital stock. Our loan and security agreement with Hercules, dated October 23, 2013, as amended, prohibits us from paying cash dividends or distributions on our capital stock. Even if we are permitted to pay cash dividends in the future, we do not intend to do so. Rather, we intend to retain future earnings, if any, to fund the operation and expansion of our business and for general corporate purposes.

CAPITALIZATION

The following table summarizes our cash and cash equivalents, certain other items from our historical consolidated balance sheet, and capitalization as of December 31, 2016:

on an actual basis; and

on an as adjusted basis, giving effect to our receipt of the net proceeds from the sale by us in this offering of 1,171,875 units at the public offering price of \$6.40 per unit, assuming the conversion of all of the Preferred Stock included in the units into shares of common stock and after deducting estimated placement agent fees and other estimated offering expenses payable by us.

For the purposes of this capitalization discussion, we took into account the additional shares of common stock that we will be required to issue to the holders of our Series B Convertible Preferred Stock upon conversion of our Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, based on 311,521 shares of Series B Convertible Preferred Stock outstanding as of December 31, 2016, and the adjusted Series B Convertible Preferred Stock conversion price of \$1.60 per share of common stock (see “Risk Factors — Risks Related to Our Organization and Our Common Stock, Preferred Stock, Warrants and this Offering—Because the effective common stock purchase price in this offering is less than the current Series B Convertible Preferred Stock conversion price of \$8.25, we will be required to issue additional shares of common stock to the holders of our Series B Convertible Preferred Stock upon conversion of the Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, which will be dilutive to all of our other stockholders, including new investors in this offering”). You should read this table together with “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and our financial statements and the related notes appearing elsewhere in this prospectus.

| | December 31, 2016 | |
|--|--------------------------|--------------------|
| | (in thousands) | |
| | (unaudited) | |
| | Actual | As Adjusted |
| Cash and cash equivalents | \$7,516 | \$14,191 |
| Equity: | | |
| Common stock, par value \$0.0001 per share – 150,000,000 shares authorized; 1,475,318 shares and 15,226,132 shares issued and outstanding actual and as adjusted ⁽¹⁾ , respectively | — | \$1 |
| Preferred stock, par value \$0.0001 per share; 5,000,000 shares authorized: | | |
| Series A Preferred Stock, par value \$0.0001 per share; none issued and outstanding actual and as adjusted | — | — |
| | — | — |

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| | | |
|---|-----------|-----------|
| Series B Convertible Preferred Stock, par value \$0.0001 per share; 311,521 shares issued and outstanding actual and as adjusted | | |
| Series C Convertible Preferred Stock, par value \$0.0001 per share; none issued and outstanding at December 31, 2016; 1,171,875 shares issued as adjusted | — | — |
| Additional paid-in capital | 135,959 | 142,633 |
| Accumulated deficit | (131,914) | (131,914) |
| Total equity | 4,045 | 10,720 |

15,226,132 shares issued and outstanding as adjusted includes 4,687,500 shares of common stock underlying Preferred Stock included in the units being sold in this offering and 9,063,314 additional shares of common stock that we will be required to issue to the holders of our Series B Convertible Preferred Stock upon conversion of shares of the Series B Convertible Preferred and the payment of the dividends thereunder in common stock as a (1) result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, based on 311,521 shares of Series B Convertible Preferred Stock outstanding as of December 31, 2016, and the adjusted Series B Convertible Preferred Stock conversion price of \$1.60 per share of common stock, and does not include 9,375,000 shares of common stock issuable upon the full exercise of the Warrants being sold in this offering.

DILUTION

If you invest in our securities in this offering, your interest will be diluted to the extent of the difference between the price per unit you pay in this offering and the as adjusted net tangible book value per share of our common stock immediately after this offering (assuming the conversion of all of the Preferred Stock included in the unit into shares of common stock). For the purpose of such calculation, the entire purchase price for the unit is being allocated to the Preferred Stock included in the unit, and the shares issuable upon exercise of the Warrants included in the unit have not been included.

Our net tangible book value of our common stock as of December 31, 2016, was approximately \$4,007,000 or approximately \$2.72 per share of common stock based on 1,475,318 shares outstanding (including 1,344,869 vested restricted shares and 130,449 unvested restricted shares) at that time. “Net tangible book value” is total assets minus the sum of liabilities and intangible assets. “Net tangible book value per share” is net tangible book value divided by the total number of shares outstanding.

After giving effect to (i) the sale of 1,171,875 units at the offering price of \$6.40 per unit and assuming the conversion of all shares of Preferred Stock included in the units into 4,687,500 shares of common stock at an assumed conversion price of \$1.60 per share of common stock and no exercise of any of the Warrants offered hereby, and after deducting estimated placement agent fees and other estimated offering expenses payable by us, and (ii) the issuance of 9,063,314 additional shares of common stock that we will be required to issue to the holders of our Series B Convertible Preferred Stock upon conversion of shares of Series B Convertible Preferred and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, based on 311,521 shares of Series B Convertible Preferred Stock outstanding as of December 31, 2016, and the adjusted Series B Convertible Preferred Stock conversion price of \$1.60 per share of common stock, our net tangible book value as of December 31, 2016, would have been approximately \$10,682,000, or approximately \$0.70 per share of common stock based on 15,226,132 shares of common stock outstanding on a pro forma basis at that time. This represents an immediate decrease in net tangible book value of \$2.02 per share to our existing stockholders and an immediate dilution of approximately \$0.90 per share to new investors participating in this offering (assuming conversion of all of the Preferred Stock included in the units covered by this prospectus into shares of common stock), as illustrated by the following table:

| | |
|---|----------|
| Preferred Stock conversion price per share of common stock | \$1.60 |
| Net tangible book value per share of common stock as of December 31, 2016 | \$2.72 |
| Decrease in net tangible book value per share of common stock attributable to the offering | \$(2.02) |
| Pro forma net tangible book value per share of common stock as of December 31, 2016 after giving effect to the offering | \$0.70 |

| | |
|--|--------|
| Dilution in net tangible book value per share of common stock to new investors in the offering | \$0.90 |
|--|--------|

The discussion of dilution, and the table quantifying it, attribute no value to the Warrants being issued in this offering and assume no exercise of any of the Warrants included in the units offered hereby or any outstanding options or warrants or other potentially dilutive securities. The exercise of potentially dilutive securities having an exercise price less than the offering price would increase the dilutive effect to new investors.

In particular, the table above excludes the following potentially dilutive securities as of December 31, 2016:

3,660 shares of common stock issuable upon the exercise of currently outstanding warrants with an exercise price of \$1,800.00 per share;

2,640 shares of common stock issuable upon the exercise of currently outstanding warrants with an exercise price of \$750.00 per share;

674 shares of common stock issuable upon the exercise of currently outstanding warrants with an exercise price of \$742.50 per share;

12,531 shares of common stock issuable upon the exercise of currently outstanding warrants to purchase one-half of one share of common stock with an exercise price for two warrants of \$437.50 per full share;

137,484 shares of common stock issuable upon the exercise of currently outstanding warrants with an exercise price of \$137.50 per share;

58,668 shares of common stock issuable upon the exercise of currently outstanding warrants with an exercise price of \$14.75 per share;

5,867 shares of common stock issuable upon the exercise of currently outstanding warrants with an exercise price of \$18.44 per share;

38,691 shares of common stock issuable upon the exercise of currently outstanding warrants issued to Hercules on June 13, 2016, with an exercise price of \$4.71 per share;

1,246,084 shares of common stock issuable upon the conversion of the currently outstanding Series B Convertible Preferred Stock and payment of all dividends accrued on the Series B Convertible Preferred Stock in an aggregate of 934,563 shares of common stock upon conversion of outstanding Series B Convertible Preferred Stock at the initial conversion price of \$8.25 per share and the stated value per share of \$33.00;

1,769,696 shares of common stock issuable upon the exercise of outstanding Series A Warrants with an exercise price of \$5.00 per share;

123,880 shares of common stock issuable upon conversion of the Series B Convertible Preferred Stock and exercise of the Series A Warrants included in the unit purchase option that we issued to the placement agent in the public offering that closed on July 7, 2016;

46,455 shares of common stock issuable as cumulative dividends upon conversion of the Series B Convertible Preferred Stock included in the unit purchase option that we issued to the placement agent in the public offering that closed on July 7, 2016;

450,517 additional shares of common stock that we will be required to issue to the placement agent upon conversion of shares of Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate

of designation for the Series B Convertible Preferred Stock, based on the adjusted Series B Convertible Preferred Stock conversion price of \$1.60 per share of common stock, included in the unit purchase option that we issued to the placement agent in the public offering that closed on July 7, 2016 (see “Risk Factors — Risks Related to Our Organization and Our Common Stock, Preferred Stock, Warrants and this Offering—Because the effective common stock purchase price in this offering is less than the current Series B Convertible Preferred Stock conversion price of \$8.25, we will be required to issue additional shares of common stock to the holders of our Series B Convertible Preferred Stock upon conversion of the Series B Convertible Preferred Stock and the payment of the dividends thereunder in common stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, which will be dilutive to all of our other stockholders, including new investors in this offering.”);

337,421 shares of common stock issuable upon the exercise of currently outstanding options with exercise prices ranging from \$0.0001 to \$2,100.00 and having a weighted average exercise price of \$27.64 per share;

1,694 shares of common stock available for future issuance under our 2011 UMBRELLA Option Plan; and

233,189 shares of common stock available for future issuance under our 2013 Long-Term Incentive Plan.

To the extent that any of our already outstanding preferred stock are converted, any of the options listed above are exercised, new options are issued under our equity incentive plans and subsequently exercised or we issue additional shares of common stock in the future, there will be further dilution to new investors participating in this offering. Our outstanding Series B Convertible Preferred Stock is subject to full-ratchet anti-dilution protection in the event we sell any common stock or common stock equivalents (subject to exceptions for certain exempt issuances) at a price lower than the then-conversion price of the Series B Convertible Preferred Stock (\$8.25 prior to this offering, which will adjust to \$1.60 as a result of this offering). Additionally, the Preferred Stock included in the units offered pursuant to this prospectus will also be subject to full-ratchet anti-dilution adjustment in the event we sell common stock or common stock equivalents (subject to exceptions for certain exempt issuances) at a price lower than the then-conversion price of the Preferred Stock. The full-ratchet anti-dilution protection applicable to our Series B Convertible Preferred Stock and the Preferred Stock included in the units offered pursuant to this prospectus is further described below under the captions “Description of Securities – Series B Convertible Preferred Stock,” “Description of Securities -- Potential Common Stock Issuances to the Holders of Our Series B Convertible Preferred Stock” and “Description of Securities– Series C Convertible Preferred Stock Being Issued in this Offering” respectively.

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

You should read the following discussion and analysis of financial condition and results of operations in conjunction with our financial statements and the related notes thereto included elsewhere in this prospectus. In addition to historical information, the following discussion and analysis includes forward-looking information that involves risks, uncertainties and assumptions. Our actual results and the timing of events could differ materially from those anticipated by these forward-looking statements as a result of many factors, including those discussed under "Risk Factors" and elsewhere in this prospectus. See "Cautionary Note Regarding Forward-Looking Statements" included elsewhere in this prospectus.

Overview

We are a medical device company focusing on the development and commercialization of our proprietary MicroNet stent platform technology for the treatment of complex vascular and coronary disease. A stent is an expandable "scaffold-like" device, usually constructed of a metallic material, that is inserted into an artery to expand the inside passage and improve blood flow. Our MicroNet, a micron mesh sleeve, is wrapped over a stent to provide embolic protection in stenting procedures.

Our CGuard EPS combines MicroNet and a self-expandable nitinol stent in a single device for use in carotid artery applications. Our CGuard EPS received CE mark approval in the European Union in March 2013, and we launched its release on a limited basis in October 2014. In January 2015, a new version of CGuard, with a rapid exchange delivery system, received CE mark approval in Europe and in September 2015, we announced the full market launch of CGuard EPS in Europe. Subsequently, we launched CGuard EPS in Argentina and Colombia, and have received regulatory approval to commercialize CGuard EPS in Russia. If we receive sufficient proceeds from the exercise of the Series C Warrants, we plan to develop CGuard EPS with a smaller delivery catheter (5 French gauge), which we intend to submit for CE mark approval within three calendar quarters of receiving such proceeds. We cannot give any assurance that we will receive sufficient (or any) proceeds from the exercise of the Series C Warrants or the timing of receipt of such proceeds, if ever. We cannot predict when or if the Series C Warrants will be exercised. It is possible that the Series C Warrants may expire and may never be exercised.

Our MGuard Prime EPS is marketed for use in patients with acute coronary syndromes, notably acute myocardial infarction (heart attack) and saphenous vein graft coronary interventions (bypass surgery). MGuard Prime EPS combines MicroNet with a bare-metal cobalt-chromium based stent. We market and sell MGuard Prime EPS for the treatment of coronary disease in the European Union. MGuard Prime EPS received CE mark approval in the European Union in October 2010 for improving luminal diameter and providing embolic protection. However, as a result of a shift in industry preferences away from bare-metal stents in favor of drug-eluting (drug-coated) stents, in 2014 we decided to curtail further development of this product in order to focus on the development of a drug-eluting stent

product, MGuard DES. Due to limited resources, though, our efforts have been limited to testing drug-eluting stents manufactured by potential partners for compatibility with MicroNet and seeking to incorporate MicroNet onto a drug-eluting stent manufactured by a potential partner.

We are also developing a neurovascular flow diverter, NGuard, which is an endovascular device that directs blood flow away from cerebral aneurysms in order to ultimately seal the aneurysms. Our flow diverter would utilize an open cell, highly flexible metal scaffold to which MicroNet would be attached. We have completed initial pre-clinical testing of this product in both simulated bench models and standard in vivo pre-clinical models. However, as we plan to focus our resources on the further expansion of our sales and marketing activities for CGuard EPS and MGuard Prime EPS and, provided that we have sufficient resources, the development of CGuard EPS with a smaller delivery catheter (5 French gauge) and its submission for CE mark approval, we do not intend to resume further development of NGuard until at least the third quarter of 2018.

We also intend to develop a pipeline of other products and additional applications by leveraging our MicroNet technology to new applications to improve peripheral vascular and neurovascular procedures, such as the treatment of the superficial femoral artery disease, vascular disease below the knee and neurovascular stenting to open diseased vessels in the brain.

Presently, none of our products may be sold or marketed in the United States.

During the first quarter of 2015, we implemented a cost reduction/focused spending plan. The plan had four components: (i) reducing headcount; (ii) limiting the focus of clinical and development expenses to only carotid and neurovascular products; (iii) limiting sales and marketing expenses to those related to the CGuard EPS stent launch; and (iv) reducing all other expenses (including conferences, travel, promotional expenses, executive cash salaries, director cash fees, rent, etc.). In addition, we decided to alter our commercial strategy by using third party distributors to drive future sales, as opposed to direct sales to hospitals and clinics, which had previously been our focus. However, we have decided to shift our commercial strategy to focus on direct sales of our products through our own internal sales initiatives as well as through distribution partners. In addition, we have begun to participate in international trade shows and industry conferences in an attempt to gain market exposure and brand recognition.

Recent Events

Effective as of 5:00 p.m. Eastern Time on October 7, 2016, we amended our certificate of incorporation in order to effectuate a 1-for-25 reverse stock split of our outstanding shares of common stock.

Critical Accounting Policies

We prepared our consolidated financial statements for inclusion in this prospectus in accordance with U.S. Generally Accepted Accounting Principles (“U.S. GAAP”). U.S. GAAP represents a comprehensive set of accounting and disclosure rules and requirements, and applying these rules and requirements requires management judgments and estimates including, in certain circumstances, choices between acceptable U.S. GAAP alternatives. The following is a discussion of our most critical accounting policies, judgments and uncertainties that are inherent in our application of U.S. GAAP.

Use of estimates

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates using assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of sales and expenses during the reporting periods. Actual results could differ from those estimates.

As applicable to these consolidated financial statements, the most significant estimates and assumptions relate to inventory valuations, share-based compensation and legal contingencies.

Functional currency

The currency of the primary economic environment in which our operations and the operations of our subsidiaries are conducted is the U.S. dollar (“\$” or “dollar”). Accordingly, our and our subsidiaries’ functional currency is the U.S. dollar.

The dollar figures are determined as follows: transactions and balances originally denominated in dollars are presented in their original amounts. Balances in foreign currencies are translated into dollars using historical and current exchange rates for non-monetary and monetary balances, respectively. The resulting translation gains or losses are recorded as financial income or expense, as appropriate. For transactions reflected in the statements of operations in foreign currencies, the exchange rates at transaction dates are used. Depreciation and changes in inventories and other changes deriving from non-monetary items are based on historical exchange rates.

Concentration of credit risk and allowance for doubtful accounts

Financial instruments that may potentially subject us to a concentration of credit risk consist of cash and cash equivalents, which are deposited in major financially sound institutions in the United States, Israel and Germany, and trade accounts receivable. Our trade accounts receivable are derived from revenues earned from customers from various countries. We perform ongoing credit evaluations of our customers' financial condition and, generally, require no collateral from customers. We also have a credit insurance policy for some customers. We maintain an allowance for doubtful accounts receivable based upon the expected ability to collect the accounts receivable. We review our allowance for doubtful accounts quarterly by assessing individual accounts receivable and all other balances based on historical collection experience and an economic risk assessment. If we determine that a specific customer is unable to meet its financial obligations to us, we provide an allowance for credit losses to reduce the receivable to the amount management reasonably believes will be collected, which is netted against "Accounts receivable — Trade".

Inventory

Inventories are stated at the lower of cost (cost is determined on a "first-in, first-out" basis) or market value. Our inventories generally have a limited shelf life and are subject to impairment as they approach their expiration dates. We regularly evaluate the carrying value of our inventories and when, based on such evaluation, factors indicate that impairment has occurred, we impair the inventories' carrying value.

Revenue recognition

Revenue is recognized when delivery has occurred, evidence of an arrangement exists, title and risks and rewards for the products are transferred to the customer and collection is reasonably assured.

We recognize revenue net of value added tax (VAT).

Research and development costs

Research and development costs are charged to the statement of operations as incurred.

Share-based compensation

Employee option awards are classified as equity awards and accounted for using the grant-date fair value method. The fair value of share-based awards is estimated using the Black-Scholes valuation model and expensed over the requisite service period, net of estimated forfeitures. Until December 31, 2015, we estimated forfeitures based on historical experience and anticipated future conditions. Beginning on January 1, 2016, we adopted Accounting Standards Update (“ASU”) 2016-09 and elected to account for forfeitures as they occur. See Note 2s4 to our financial statements for the twelve months ended December 31, 2016 included in this prospectus.

We elected to recognize compensation expenses for awards with only service conditions that have graded vesting schedules using the accelerated multiple option approach.

In addition, certain of our share-based awards are market- and performance-based and dependent upon achieving certain goals. With respect to performance-based awards, we estimate the expected pre-vesting award probability that the performance conditions will be achieved. We only recognize expense for those shares that are expected to vest.

Fair value measurement

We measure fair value and disclose fair value measurements for financial assets and liabilities. Fair value is based on the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

The accounting standard establishes a fair value hierarchy that prioritizes observable and unobservable inputs used to measure fair value into three broad levels, which are described below:

Level 1: Quoted prices (unadjusted) in active markets that are accessible at the measurement date for assets or liabilities. The fair value hierarchy gives the highest priority to Level 1 inputs.

Level 2: Observable prices that are based on inputs not quoted on active markets, but corroborated by market data.

Level 3: Unobservable inputs are used when little or no market data is available. The fair value hierarchy gives the lowest priority to Level 3 inputs.

In determining fair value, we utilize valuation techniques that maximize the use of observable inputs and minimize the use of unobservable inputs to the extent possible and consider counterparty credit risk in our assessment of fair value.

Results of Operations

Twelve months ended December 31, 2016 compared to the twelve months ended December 31, 2015

Revenues. For the twelve months ended December 31, 2016, revenue decreased by \$416,000, or 18.0%, to \$1,894,000, from \$2,310,000 during the twelve months ended December 31, 2015. This decrease was predominantly driven by a 53.5% decrease in sales of MGuard Prime EPS from \$1,607,000 in 2015 to \$747,000 in 2016, largely driven by doctors increasingly using drug-eluting stents rather than bare metal stents like MGuard Prime EPS in STEMI patients. This decrease in MGuard Prime EPS sales was partially offset by a 63.2% increase in sales of CGuard EPS from \$703,000 in 2015 to \$1,147,000 in 2016.

With respect to regions, the decrease in revenue was primarily attributable to a decrease of \$586,000 in revenue from sales of MGuard Prime EPS from our distributors in Europe and a decrease of \$257,000 in revenue from sales of MGuard Prime EPS from our distributors in Latin America, partially offset by an increase of \$383,000 in revenue from sales of CGuard EPS from our distributors in Europe.

Gross Profit (Loss). For the twelve months ended December 31, 2016, we had a gross profit (revenue less cost of revenues) of \$102,000, as compared to a gross loss (revenue less cost of revenues) of \$296,000, during the twelve months ended December 31, 2015, representing an increase of \$398,000. This increase in gross profit was attributable to a decrease of write-offs of inventory (primarily MGuard Prime EPS) of \$593,000 during 2016, as compared to 2015, a decrease of \$317,000 in material and labor costs (due to the decreased sales) and a decrease of \$86,000 in miscellaneous expenses. These increases in gross profit were partially offset by a decrease in revenues of \$416,000 (see above for explanation) and an increase of \$182,000 related to the underutilization of our manufacturing resources. Gross margin (gross profits as a percentage of revenue) increased to 5.4% in the twelve months ended December 31, 2016 from (12.8)% during 2015.

Research and Development Expenses. For the twelve months ended December 31, 2016, research and development expenses decreased by 64.6%, or \$2,351,000, to \$1,291,000, from \$3,642,000 during the twelve months ended December 31, 2015. This decrease in research and development expenses resulted primarily from a decrease of \$1,282,000 in compensation expenses, a decrease of \$543,000 in clinical trial and development costs associated with CGuard EPS, a decrease of \$292,000 in clinical trial expenses associated with our now terminated MASTER II trial and a decrease of \$234,000 in miscellaneous expenses. The decreases in compensation and miscellaneous expenditures related to MGuard Prime EPS are the results of the implementation of our cost reduction/focused spending plan that began in the first quarter of 2015.

Selling and Marketing Expenses. For the twelve months ended December 31, 2016, selling and marketing expenses decreased by 54.1%, or \$1,719,000, to \$1,459,000, from \$3,178,000 during the twelve months ended 2015. This decrease in selling and marketing expenses resulted primarily from a decrease of \$1,113,000 in compensation expenses due to our transition away from direct sales in favor of using third party distributors, a decrease of \$281,000 in travel expenses associated with the decreased size of our sales force, a decrease of \$180,000 in expenditures related to our reduced participation in trade shows and promotional activities, primarily the EuroPCR Congress, incurred in 2015, and a decrease of \$145,000 in miscellaneous expenditures. The decrease in spending was a result of our cost reduction/focused spending plan that began in the first quarter of 2015.

General and Administrative Expenses. For the twelve months ended December 31, 2016, general and administrative expenses decreased by 21.7%, or \$1,387,000, to \$5,000,000, from \$6,387,000 during the twelve months ended December 31, 2015. The decrease in general and administrative expenses resulted primarily from a decrease of \$791,000 in compensation expenses, a decrease of \$507,000 in consulting fees and a decrease of \$89,000 in miscellaneous expenses. The reduction in compensation expenses mainly related to the forfeiture of the unvested restricted shares caused by our former chief executive officer's resignation in 2016. The reduction in consulting fees related to recruitment and business development activities in 2015, which we did not undertake in 2016.

Restructuring and Impairment Expenses. For the twelve months ended December 31, 2015, we incurred \$982,000 of restructuring and impairment expenses made up of \$576,000 of expenses related to the impairment of an MGuard Prime EPS royalty buyout option due to anticipated lower sales in the future, \$246,000 of cash payouts and \$59,000 of restricted shares given to terminated employees in connection with our restructuring and \$101,000 associated with the early termination of our lease for a portion of our office in Boston, Massachusetts. No such expense was incurred in 2016.

Financial Expenses. For the twelve months ended December 31, 2016, financial expenses decreased by 25.9% or \$284,000, to \$812,000, from \$1,096,000 during the twelve months ended 2015. The decrease in financial expenses primarily resulted from a decrease in interest expenses due to the reduction in principal of our outstanding indebtedness.

Tax Expenses (Income). For the twelve months ended December 31, 2016, there was no material change in tax expenses (income) compared to the same period in 2015.

Net Loss. Our net loss decreased by \$7,124,000, or 45.7%, to \$8,461,000 for the twelve months ended December 31, 2016, from \$15,585,000 during the twelve months ended December 31, 2015. The decrease in net loss resulted primarily from a decrease of \$6,439,000 in operating expenses primarily associated with our cost reduction/focused spending plan (see above for explanation), an increase of \$398,000 in gross profit and a decrease of \$284,000 in financial expenses.

Twelve months ended December 31, 2015 compared to the twelve months ended December 31, 2014

Revenues. For the twelve months ended December 31, 2015, revenue decreased by \$0.5 million, or 18.1%, to \$2.3 million, from \$2.8 million during the same period in 2014. This decrease was predominantly driven by a decrease in sales of our MGuard coronary products of \$1.2 million, or 42.6%, from \$2.8 million in the twelve months ended December 31, 2014 to \$1.6 million in the same period in 2015. This decrease in sales of MGuard Prime EPS was predominantly driven by a decrease in sales volume of \$0.8 million, or 28.9% due to the trend of doctors increasingly using drug-eluting stents rather than bare metal stents in STEMI patients, which impacted current sales. Price decreases to our distributors drove the remaining decrease of \$0.4 million, or 13.7%, of MGuard Prime EPS, due to lower average sales prices necessary to remain competitive amongst sharp price decreases in the coronary stent market, as well as the effects of the weakening of the Euro against the U.S dollar. These decreases, however, were partially offset by an increase of \$0.7 million of sales of our new product CGuard EPS, which was launched in October 2014.

With respect to regions, the decrease in revenue was primarily attributable to a decrease of \$0.7 million in revenue from our distributors in the Middle East and a decrease of \$0.1 million in revenue from our distributors in Asia, partially offset by an increase of \$0.3 million in revenue from our distributors in Europe.

Gross Profit (Loss). For the twelve months ended December 31, 2015, we had a gross loss (revenue less cost of revenues) of \$0.3 million, as compared to a gross profit of \$0.8 million during the same period in 2014, representing a decrease of 137.8%, or \$1.1 million. This decrease in gross profit was attributable to a decrease in revenues of \$0.5 million (see above for explanation), an increase of write-offs of inventory of \$0.4 million, which were primarily related to write-offs of MGuard Prime EPS units due to expected lower sales in the future resulting from industry preferences for drug eluting stents, and our transition to a third party distributor commercial strategy, an increase in labor and material costs of \$0.3 million attributable to higher material and labor costs for CGuard EPS, as well as an increase of \$0.3 million related to underutilization of our manufacturing resources. These increases, however, were partially offset by a decrease of \$0.4 million in costs associated with a voluntary field action pursuant to which we temporarily withdrew our MGuard products from the market. Gross margin (gross profits as a percentage of revenue) decreased from 27.8% in the twelve months ended December 31, 2014 to (12.8)% in the same period in 2015. The decrease in gross margin of 40.6% was driven mainly by write-offs of inventory, the change in product mix, including a higher percentage of CGuard EPS, which has higher material and labor costs than our MGuard coronary products, and a lower average sales price of MGuard Prime EPS.

Research and Development Expenses. For the twelve months ended December 31, 2015, research and development expenses decreased by 58.3%, or \$5.1 million, to \$3.6 million, from \$8.7 million during the same period in 2014. This decrease in research and development expenses resulted primarily from a decrease of \$3.4 million in clinical trial expenses associated with our now terminated MASTER II trial, a decrease of \$0.5 million in clinical trial and development costs associated with CGuard EPS, which were predominantly related to our CARENET (**CAR**otid **E**mbolic protection using micro**NET**) trial, a decrease of \$0.3 million in compensation expenses, a decrease of \$0.3 million of expenses related to our stent retention program, which we concluded in 2014, a decrease of \$0.2 million in

travel expenses and a decrease of \$0.4 million in miscellaneous clinical and development expenditures related to MGuard Prime EPS. The decreases in compensation, travel and miscellaneous clinical and development expenditures related to MGuard Prime EPS are the results of the implementation of our cost reduction/focused spending plan in the first quarter of 2015. Research and development expenses as a percentage of revenue decreased to 157.7% for the twelve months ended December 31, 2015, from 310.3% in the same period in 2014.

Selling and Marketing Expenses. For the twelve months ended December 31, 2015, selling and marketing expenses decreased by 51.9%, or \$3.4 million, to \$3.2 million, from \$6.6 million during the same period in 2014. This decrease in selling and marketing expenses resulted primarily from a decrease of \$2.2 million in compensation expenses due to our transition away from direct sales in favor of using third party distributors, a decrease of \$0.5 million in travel expenses associated with the decreased size of our sales force, a decrease of \$0.5 million in trade show participation related expenditures and a decrease of \$0.2 million in miscellaneous expenses. The decrease in spending of the above was a result of our cost reduction/focused spending plan. Selling and marketing expenses as a percentage of revenue decreased to 137.6% in the twelve months ended December 31, 2015, from 234.7% in the same period in 2014.

General and Administrative Expenses. For the twelve months ended December 31, 2015, general and administrative expenses decreased by 30.0%, or \$2.7 million, to \$6.4 million, from \$9.1 million during the same period in 2014. The decrease in general and administrative expenses resulted primarily from a decrease of \$2.1 million in compensation due to a decrease in share-based compensation driven by lower valued equity grants made to our management and directors, as well as a decrease in salary expenses due to a reduced headcount as part of our cost reduction/focused spending plan. In line with our cost reduction/focused spending plan, we also had a decrease of \$0.2 million in legal expenses, a decrease of \$0.1 million in travel expenditures and a decrease of \$0.4 million in miscellaneous expenses. General and administrative expenses as a percentage of revenue decreased to 276.5% in the twelve months ended December 31, 2015 from 323.8% in the same period in 2014.

Restructuring and Impairment Expenses. For the twelve months ended December 31, 2015, we incurred \$1.0 million of restructuring and impairment expenses made up of \$0.6 million of expenses related to the impairment of an MGuard Prime EPS royalty buyout option due to anticipated lower sales in the future due to the shift in industry preferences away from bare metal stents in favor of drug eluting stents, \$0.2 million of cash payouts and \$0.1 million of restricted shares given to employees terminated in connection with our cost reduction/focused spending plan and \$0.1 million in fees associated with our early exit from a portion of our lease in our Boston office. Restructuring and impairment expenses as a percentage of revenue was 42.5% for the twelve months ended December 31, 2015.

Financial Expenses. For the twelve months ended December 31, 2015, financial expenses decreased by 20.9%, or \$0.3 million, to \$1.1 million, from \$1.4 million during the same period in 2014. The decrease in financial expenses resulted from a decrease of \$0.4 of interest expenses due to the reduction in principal of our outstanding indebtedness, partially offset by an increase in miscellaneous expenses of \$0.1 million. Financial expenses as a percentage of revenue decreased to 47.4% in the twelve months ended December 31, 2015, from 49.1% in the same period in 2014.

Tax Expenses (Income). For the twelve months ended December 31, 2015 there was no material change in tax expenses (income) compared to the same period in 2014.

Net Loss. Our net loss decreased by \$9.5 million, or 37.9%, to \$15.6 million for the twelve months ended December 31, 2015 from \$25.1 million during the same period in 2014. The decrease in net loss resulted primarily from a decrease of \$10.2 million in operating expenses primarily associated with lower research and development expenses, due to our cost reduction/focused spending plan, and a decrease of \$0.3 million in financial expenses, partially offset by a decrease of \$1.0 million in gross profit (see above for explanation).

Liquidity and Capital Resources

We had an accumulated deficit as of December 31, 2016 of \$132 million, as well as a net loss of \$8,461,000 and negative operating cash flows. We expect to continue incurring losses and negative cash flows from operations until our products (primarily CGuard EPS) reach commercial profitability. As a result of these expected losses and negative cash flows from operations, along with our current cash position, we only have sufficient resources to fund operations for a period of up to six months from the date of this prospectus. Therefore, there is substantial doubt about our ability to continue as a going concern.

Our plans include the continued commercialization of our products and raising capital through the sale of additional equity securities, debt or capital inflows from strategic partnerships. There are no assurances, however, that we will be successful in obtaining the level of financing needed for our operations. If we are unsuccessful in commercializing our products and raising capital, we may need to reduce activities, curtail or cease operations.

On October 23, 2013, we entered into a loan and security agreement with Hercules, which was subsequently amended on November 19, 2013, July 23, 2014, and June 13, 2016, pursuant to which we received a loan of \$10 million, before deduction of issuance costs. Interest on the loan is determined on a daily basis at a variable rate equal to the greater of either (i) 10.5%, or (ii) the sum of (A) 10.5% plus (B) the prime rate minus 5.5%. In connection with the loan and security agreement, on October 23, 2013, we issued the lender a five year warrant to purchase 674 shares of our common stock at a per share exercise price of \$742.50. The amendment to the loan and security agreement entered into on June 13, 2016, provides that, among other things, the principal payment otherwise due and payable will be suspended for a four month period beginning May 1, 2016, provided, that we receive unrestricted and unencumbered net cash proceeds in an amount of at least \$10 million from the sale of our equity securities with investors acceptable to the lender on or prior to June 30, 2016. In addition, we agreed to increase the end of term charge from \$500,000 to \$520,000 on the earliest to occur of February 1, 2017, or when the loan is paid in full or matures. Our obligations under the loan and security agreement are secured by a grant of a security interest in substantially all of our assets. On June 13, 2016, in connection with the amendment to the loan and security agreement, we entered into a warrant agreement with the lender, pursuant to which we issued a five year warrant to purchase up to 38,691 shares of common stock. The principal payments due on May 1, 2016, and June 1, 2016, were suspended, and although the public offering that closed in July 2016 had not closed prior to June 30, 2016, the lender agreed to waive the July 1, 2016, principal payment. Additionally, on July 6, 2016, the lender agreed to waive the August 1, 2016 principal payment, as well. The current principal amount of the loan as of January 5, 2017, was approximately \$1.9 million, and we are required to make monthly payments of interest and principal in the amount of approximately \$380,000 per month. The term loan under the loan and security agreement, as amended, matures on June 1, 2017.

On March 9, 2015, we sold 137,481 shares of our common stock and warrants to purchase 137,481 shares of our common stock in a public offering. Each purchaser received a warrant to purchase one share of common stock for each share of common stock that it purchased in the offering. The warrants have a term of exercise of 5 years from the date of issuance and an exercise price of \$137.50. This offering resulted in net proceeds to us of approximately \$12.4 million after deducting placement agent fees and other estimated offering expenses.

On March 21, 2016, we sold 76,004 shares of our common stock and warrants to purchase 38,005 shares of our common stock in a public offering. Each purchaser received a warrant to purchase one half of one share of common stock for each share of common stock that it purchased in the offering. The warrants were exercisable immediately and have a term of exercise of 5 years from the date of issuance and an exercise price of \$14.75. This offering resulted in gross proceeds to us of approximately \$1.1 million.

On March 21, 2016, we sold 41,323 shares of our common stock and warrants to purchase 20,663 shares of our common stock in a private placement. Each purchaser received a warrant to purchase one half of one share of common stock for each share of common stock that it purchased in the offering. The warrants were exercisable immediately and have a term of exercise of 5 years from the date of issuance and an exercise price of \$14.75. This offering resulted in gross proceeds to us of approximately \$0.6 million.

These offerings on March 21, 2016, resulted in net proceeds to us of approximately \$1.4 million after deducting placement agent fees and other estimated offering expenses.

On July 7, 2016, we closed a public offering of 442,424 shares of Series B Convertible Preferred Stock and Series A Warrants to purchase up to 1,769,696 shares of common stock. Each share of Series B Convertible Preferred Stock and the accompanying Series A Warrants were sold at a price of \$33.00. Each share of Series B Convertible Preferred Stock was initially convertible into four shares of common stock reflecting a conversion price equal to \$8.25 per share. The holders of Series B Convertible Preferred Stock will be entitled to receive cumulative dividends at the rate per share of 15% per annum of the stated value for five years, payable in cash or common stock, at our discretion. The Series A Warrants are exercisable immediately and have a term of exercise of five years from the date of issuance and have an exercise price of \$5.00 per share of common stock. The Series A Warrants commenced trading on the NYSE MKT under the ticker symbol "NSPR.WS" on August 1, 2016. We received gross proceeds of approximately \$14.6 million from the offering, before deducting placement agent fees and offering expenses payable by us.

Twelve months ended December 31, 2016 compared to the twelve months ended December 31, 2015

General. At December 31, 2016, we had cash and cash equivalents of \$7,516,000, as compared to \$3,257,000 as of December 31, 2015. We have historically met our cash needs through a combination of issuing new shares, borrowing activities and product sales. Our cash requirements are generally for research and development, marketing and sales activities, finance and administrative cost, capital expenditures and general working capital.

Net cash used in our operating activities of \$7,495,000 during the twelve months ended December 31, 2016 was primarily used for payment of (i) \$5,257,000 for third party related expenses and for professional services and (ii) \$4,164,000 in salary payments. These expenditures were partially offset by \$1,926,000 in payments received from customers.

Net cash used in our operating activities of \$11,596,000 during the twelve months ended December 31, 2015 was primarily used for payment of (i) \$7,864,000 for third party related expenses and for professional services and (ii) \$6,169,000 in salary payments. These expenditures were partially offset by \$2,437,000 in payments received from customers.

Cash provided by our investing activities was \$70,000 during the twelve months ended December 31, 2016, resulting primarily from the receipt of cash previously funded to employee retirement funds, compared to \$23,000 of cash used during the same period in 2015 primarily from the purchase of property, plant and equipment.

Cash provided by financing activities for the twelve months ended December 31, 2016 was \$11,703,000, compared to \$8,617,000 during the same period in 2015. The principal source of the cash provided by financing activities during the twelve months ended December 31, 2016, was the funds received from our July 2016 public offering of preferred stock and warrants and from our March 2016 concurrent public and private offerings of common stock and warrants that resulted in approximately \$14,365,000 of aggregate net proceeds, offset by loan repayments of \$2,648,000. The principal source of the cash provided by financing activities during the twelve months ended December 31, 2015 was the issuance of common stock and warrants in a public offering that resulted in approximately \$12,432,000 of net proceeds, offset by loan repayments of \$3,702,000 and \$113,000 of payments made by us in satisfaction of tax withholding obligations associated with the vesting of restricted stock held by some of our employees.

As of December 31, 2016, our current assets exceeded our current liabilities by a multiple of 1.8. Current assets increased by \$3,962,000 during the twelve months ended December 31, 2016 and current liabilities decreased by \$2,056,000 during the twelve months ended December 31, 2016. As a result, our working capital surplus at December 31, 2016 increased by \$6,018,000 to \$3,816,000 from a working capital deficit of \$2,202,000 at December 31, 2015.

Twelve months ended December 31, 2015 compared to the twelve months ended December 31, 2014

General. At December 31, 2015, we had cash and cash equivalents of \$3.3 million, as compared to \$6.3 million as of December 31, 2014. We have historically met our cash needs through a combination of issuing new shares, borrowing activities and product sales. Our cash requirements are generally for research and development, marketing and sales activities, finance and administrative cost, capital expenditures and general working capital.

Cash used in our operating activities was \$11.6 million for the twelve months ended December 31, 2015 and \$19.4 million for the same period in 2014. The principal reasons for the usage of cash in our operating activities for the twelve months ended December 31, 2015 were a net loss of \$15.6 million, as well as an increase in working capital of \$0.2 million, offset by \$3.1 million in non-cash share-based compensation that was largely paid to our directors, former chief executive officer and chief operating officer, \$0.6 million of non-cash expenses related to the impairment of our royalty buyout option (discussed above), \$0.3 million of non-cash financial expenses and \$0.2 million of depreciation and amortization expenses. The principal reasons for the usage of cash in our operating activities for the twelve months ended December 31, 2014 were a net loss of \$25.1 million, offset by \$4.1 million in non-cash share-based compensation that was largely paid to our directors and former chief executive officer, a decrease in working capital of \$0.9 million, \$0.4 million of non-cash financial expense and \$0.3 million of depreciation and amortization expenses.

Cash used in our investing activities was \$23,000 during the twelve months ended December 31, 2015, compared to \$86,000 during the same period in 2014. The decrease in cash used in our investing activities resulted primarily from a decrease in purchases of property, plant and equipment.

Cash provided by financing activities for the twelve months ended December 31, 2015 was \$8.6 million, compared to \$8.3 million during the same period in 2014. The principal source of the cash provided by financing activities during the twelve months ended December 31, 2015 was the issuance of shares and warrants in a public offering for approximately \$12.4 million after deducting placement agent fees and other estimated offering expenses, offset by loan repayments of \$3.7 million and \$0.1 million of payments made by us in satisfaction of tax withholding obligations associated with the vesting of restricted stock held by some of our employees. The principal source of the cash provided by financing activities during the twelve months ended December 31, 2014 was the issuance of shares in a registered direct offering of \$7.4 million and funds received from the issuance of at-the-market shares of \$2.2 million, offset by the repayment of a loan of \$1.2 million.

As of December 31, 2015, our current liabilities exceeded our current assets by a multiple of 1.5. Current assets decreased by \$4.7 million during the twelve months ended December 31, 2015 and current liabilities decreased by \$1.6 million during the twelve months ended December 31, 2015. As a result, our working capital surplus decreased by \$3.1 million to a working capital deficit of \$2.3 million at December 31, 2015.

Off Balance Sheet Arrangements

We have no off-balance sheet transactions, arrangements, obligations (including contingent obligations), or other relationships with unconsolidated entities or other persons that have, or may have, a material effect on our financial condition, changes in financial condition, revenues or expenses, results of operations, liquidity, capital expenditures or capital resources.

Recent Accounting Pronouncements

In April, 2015, the Financial Accounting Standards Board (“FASB”) ASU No. 2015-03, “Simplifying the Presentation of Debt Issuance Costs.” The new guidance requires debt issuance costs to be presented in the balance sheet as a direct deduction from the carrying value of the associated debt liability, consistent with the presentation of a debt discount. The new guidance does not affect the recognition and measurement of debt issuance costs. The new guidance became effective during the first quarter of 2016 and was applied on a retrospective basis.

As of December 31, 2016 and December 31, 2015, \$35,000 and \$85,000, respectively were deducted from the carrying value of the “Current maturity of loan” in the consolidated balance sheets.

In May 2014, the FASB issued Accounting Standards Codification (“ASC”) 606, Revenue from contracts with customers. The objective of the new revenue standard is to provide a single, comprehensive revenue recognition model for all contracts with customers to improve comparability within industries, across industries, and across capital markets. The revenue standard contains principles that an entity will apply to determine the measurement of revenue and timing of when it is recognized. The underlying principle is that an entity will recognize revenue to depict the transfer of goods or services to customers at an amount that the entity expects to be entitled to in exchange for those goods or services, based on a five step model that includes the identification of the contract with the customer and the performance obligations in the contract, determination of the transaction price, allocation of the transaction price to the performance obligations in the contract and recognizing revenue when (or as) the entity satisfies a performance obligation. The revenue standard is effective for annual periods beginning on or after December 15, 2017. We believe that the adoption of this standard will not have a material impact on our consolidated financial statements.

On July 22, 2015, the FASB issued ASU No. 2015-11, “Simplifying the Measurement of Inventory,” which requires that inventory within the scope of the guidance be measured at the lower of cost and net realizable value. Inventory measured using last-in, first-out and the retail inventory method are not impacted by the new guidance. The new guidance will be effective for public business entities in fiscal years beginning after December 15, 2016, including interim periods within those years. Prospective application is required. Early adoption is permitted as of the beginning of an interim or annual reporting period. We believe that the adoption of this standard will not have a material impact on our consolidated financial statements.

In March 2016, the FASB issued ASU 2016-09 – Improvements to Employee Share Based Payment Accounting which simplifies certain aspects of the accounting for share-based payments, including accounting for income taxes, classification of awards as either equity or liabilities, classification on the statement of cash flows as well as allowing an entity-wide accounting policy election to either estimate the number of awards that are expected to vest or account for forfeitures as they occur. This ASU is effective for fiscal years beginning after December 15, 2016, including interim periods within those fiscal years. Early adoption is permitted in any annual or interim period for which financial statements have not yet been issued, and all amendments in the ASU that apply must be adopted in the same period. We adopted the update during the quarter ended December 31, 2016, and have retroactively applied the guidance effective as of January 1, 2016. We elected to account for forfeitures as they occur rather than estimate expected forfeitures which resulted in a cumulative-effect adjustment to retained earnings as of the beginning of the current period of \$457,000. Certain amounts or ratios for 2016 interim periods have been restated to reflect the adoption of this new guidance. Adoption of this update does not affect our total equity or book value per share.

In November 2016, the FASB issued ASU 2016-18, “Statement of Cash Flows (Topic 230) Restricted Cash”. The new guidance requires that the reconciliation of the beginning-of-period and end-of-period amounts shown in the statement of cash flows include restricted cash and restricted cash equivalents. If restricted cash is presented separately from cash and cash equivalents on the balance sheet, companies will be required to reconcile the amounts presented on the statement of cash flows to the amounts on the balance sheet. Companies will also need to disclose information about the nature of the restrictions. The guidance is effective for annual and interim reporting periods beginning after December 15, 2017, and early adoption is permitted. The adoption of this standard is not expected to have a material impact on our consolidated financial statements.

In August 2016, the FASB issued ASU No. 2016-15 “Statement of Cash Flows Topic 230: Classification of Certain Cash Receipts and Cash Payments.” ASU No. 2016-15 issued guidance to clarify how certain cash receipts and cash payments should be presented in the statement of cash flows. ASU 2016-15 is effective for annual and interim reporting periods beginning on or after December 15, 2016 and early adoption is permitted. The adoption of this standard is not expected to have a material impact on our consolidated financial statements.

In January 2016, the FASB issued ASU 2016-01, Recognition and Measurement of Financial Assets and Financial Liabilities, which addresses certain aspects of recognition, measurement, presentation and disclosure of financial instruments. The new standard is effective for annual periods and interim periods beginning after December 15, 2017, and upon adoption, an entity should apply the amendments by means of a cumulative-effect adjustment to the balance

sheet at the beginning of the first reporting period in which the guidance is effective. Early adoption is not permitted except for the provision to record fair value changes for financial liabilities under the fair value option resulting from instrument-specific credit risk in other comprehensive income. We are currently evaluating the impact of adopting this guidance.

In February 2016, the FASB issued ASU 2016-02, Leases, which requires to recognize and measure leases at the beginning of the earliest period presented using a modified retrospective approach. The accounting standard is effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. Early adoption is permitted. We believe that the adoption of this standard will not have a material impact on our consolidated financial statements.

Factors That May Affect Future Operations

We believe that our future operating results will continue to be subject to quarterly variations based upon a wide variety of factors, including the cyclical nature of the ordering patterns of our distributors, timing of regulatory approvals, the implementation of various phases of our clinical trials and manufacturing efficiencies due to the learning curve of utilizing new materials and equipment. Our operating results could also be impacted by a weakening of the Euro and strengthening of the NIS, both against the U.S. dollar. Lastly, other economic conditions we cannot foresee may affect customer demand, such as individual country reimbursement policies pertaining to our products.

BUSINESS

Overview

We are a medical device company focusing on the development and commercialization of our proprietary MicroNet stent platform technology for the treatment of complex vascular and coronary disease. A stent is an expandable “scaffold-like” device, usually constructed of a metallic material, that is inserted into an artery to expand the inside passage and improve blood flow. Our MicroNet, a micron mesh sleeve, is wrapped over a stent to provide embolic protection in stenting procedures.

Our CGuard EPS combines MicroNet and a self-expandable nitinol stent in a single device for use in carotid artery applications. Our CGuard EPS received CE mark approval in the European Union in March 2013, and we launched its release on a limited basis in October 2014. In January 2015, a new version of CGuard, with a rapid exchange delivery system, received CE mark approval in Europe and in September 2015, we announced the full market launch of CGuard EPS in Europe. Subsequently, we launched CGuard EPS in Argentina and Colombia, and have received regulatory approval to commercialize CGuard EPS in Russia. If we receive sufficient proceeds from the exercise of the Series C Warrants, we plan to develop CGuard EPS with a smaller delivery catheter (5 French gauge), which we intend to submit for CE mark approval within three calendar quarters of receiving such proceeds. We believe that CGuard EPS with a smaller delivery catheter will enable us to meet the market demand for minimally invasive devices, have a competitive advantage in penetrating the Asia Pacific market and offer our product for transradial catheterization, which, we believe, is gaining favor among interventionalists. We cannot give any assurance that we will receive sufficient (or any) proceeds from the exercise of the Series C Warrants or the timing of receipt of such proceeds, if ever. We cannot predict when or if the Series C Warrants will be exercised. It is possible that the Series C Warrants may expire and may never be exercised.

Our MGuard Prime EPS is marketed for use in patients with acute coronary syndromes, notably acute myocardial infarction (heart attack) and saphenous vein graft coronary interventions (bypass surgery). MGuard Prime EPS combines MicroNet with a bare-metal cobalt-chromium based stent and, together with our first generation MGuard stent combining MicroNet with a bare-metal stainless steel stent, unless otherwise indicated, we refer to both kinds of bare-metal stents as our MGuard coronary products. We market and sell MGuard Prime EPS for the treatment of coronary disease in the European Union. MGuard Prime EPS received CE mark approval in the European Union in October 2010 for improving luminal diameter and providing embolic protection. However, as a result of a shift in industry preferences away from bare-metal stents in favor of drug-eluting (drug-coated) stents, in 2014 we decided to curtail further development of this product in order to focus on the development of a drug-eluting stent product, MGuard DES. Due to limited resources, though, our efforts have been limited to testing drug-eluting stents manufactured by potential partners for compatibility with MicroNet and seeking to incorporate MicroNet onto a drug-eluting stent manufactured by a potential partner.

We are also developing a neurovascular flow diverter, NGuard, which is an endovascular device that directs blood flow away from cerebral aneurysms in order to ultimately seal the aneurysms. Our flow diverter would utilize an open cell, highly flexible metal scaffold to which MicroNet would be attached. We have completed initial pre-clinical testing of this product in both simulated bench models and standard in vivo pre-clinical models. However, as we plan to focus our resources on the further expansion of our sales and marketing activities for CGuard EPS and MGuard Prime EPS and, provided that we have sufficient resources, the development of CGuard EPS with a smaller delivery catheter (5 French gauge) and its submission for CE mark approval, we do not intend to resume further development of NGuard until at least the third quarter of 2018.

We also intend to develop a pipeline of other products and additional applications by leveraging our MicroNet technology to new applications to improve peripheral vascular and neurovascular procedures, such as the treatment of the superficial femoral artery disease, vascular disease below the knee and neurovascular stenting to open diseased vessels in the brain.

Presently, none of our products may be sold or marketed in the United States.

During the first quarter of 2015, we implemented a cost reduction/focused spending plan. The plan had four components: (i) reducing headcount; (ii) limiting the focus of clinical and development expenses to only carotid and neurovascular products; (iii) limiting sales and marketing expenses to those related to the CGuard EPS stent launch; and (iv) reducing all other expenses (including conferences, travel, promotional expenses, executive cash salaries, director cash fees, rent, etc.). In addition, we decided to alter our commercial strategy by using third party distributors to drive future sales, as opposed to direct sales to hospitals and clinics, which had previously been our focus. However, we have decided to shift our commercial strategy to focus on sales of our products through local distribution partners and our own internal sales initiatives. We have begun to participate in international trade shows and industry conferences in an attempt to gain market exposure and brand recognition.

Recent Developments

On July 7, 2016, we closed a public offering of 442,424 shares of Series B Convertible Preferred Stock and Series A Warrants to purchase up to 1,769,696 shares of common stock. Each share of Series B Convertible Preferred Stock and the accompanying Series A Warrants were sold at a price of \$33.00. Each share of Series B Convertible Preferred Stock was initially convertible into four shares of common stock reflecting a conversion price equal to \$8.25 per share. Upon completion of this offering, pursuant to the full-ratchet anti-dilution price protection in the certificate of designation for the Series B Convertible Preferred Stock, the conversion price of the Series B Convertible Preferred Stock will be adjusted to \$1.60 per share of common stock, and each share of Series B Convertible Preferred Stock will be convertible into 20.625 shares of common stock. The holders of Series B Convertible Preferred Stock will be entitled to receive cumulative dividends at the rate per share of 15% per annum of the stated value for five years, payable in cash or common stock, at our discretion. The Series A Warrants are exercisable immediately and have a term of exercise of five years from the date of issuance and have an exercise price of \$5.00 per share of common stock. The Series A Warrants commenced trading on the NYSE MKT under the ticker symbol "NSPR.WS" on August 1, 2016. We received gross proceeds of approximately \$14.6 million from the offering, before deducting placement agent fees and offering expenses payable by us.

Effective as of 5:00 p.m. Eastern Time on October 7, 2016, we amended our certificate of incorporation in order to effectuate a 1-for-25 reverse stock split of our outstanding shares of common stock.

Growth Strategy

Our primary business objective is to utilize our proprietary technology to become the industry standard for treatment of complex vascular and coronary disease and to provide a superior solution to the common acute problems caused by current stenting procedures, such as restenosis, embolic showers and late thrombosis. We are pursuing the following business strategies in order to achieve this objective.

Grow our presence in existing and new markets for CGuard EPS. We have fully launched CGuard EPS in most European and Latin American countries, through a combination of distributor sales organizations. We are also pursuing additional registrations and contracts with local distributors in other countries in Europe, Asia and Latin America.

Continue to leverage MicroNet technology to develop additional applications for interventional cardiologists and vascular surgeons. In addition to the applications described above, we believe that we will eventually be able to utilize our proprietary MicroNet technology to address imminent market needs for new product innovations to significantly improve patients' care. We continue to broadly develop and protect intellectual property using our mesh technology. Examples of some areas include peripheral vascular disease, neurovascular disease, renal artery disease, and bifurcation disease.

Establish relationships with collaborative and development partners to fully develop and market our existing and future products. We are seeking strategic partners for collaborative research, development, marketing, distribution, or other agreements, which could assist with our development and commercialization efforts for CGuard EPS and NGuard, as well as future efforts with MGuard Prime EPS, MGuard DES, and other potential products that are based on our MicroNet technology.

Continue to protect and expand our portfolio of patents. Our MicroNet technology and the use of patents to protect it are critical to our success. We own numerous patents for our MicroNet technology. Twelve separate patent applications have been filed in the United States, some of which have corresponding patent applications and/or issued patents in Canada, China, Europe, Israel, India, and South Africa. We believe these patents and patent applications collectively cover all of our existing products, and may be useful for protecting our future technological developments. We intend to aggressively continue patenting new technology, and to actively pursue any infringement covered by any of our patents. We believe that our patents, and patent applications once allowed, are important for maintaining the competitive differentiation of our products and maximizing our return on research and development investments.

Resume development and successfully commercialize MGuard DES. While we have limited the focus of product development to carotid and neurovascular products, if we resume development of our coronary products, we plan to evaluate opportunities to further develop MGuard DES.

Business Segment and Geographic Areas

Prior to October 2014, all revenue was derived from sales of MGuard Prime EPS. For the twelve months ended December 31, 2016, 39% of our revenue was derived from sales of this product, with the remaining 61% of our revenue derived from sales of CGuard EPS. For financial information about our one operating and reportable segment and geographic areas, refer to “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and Note 12 to our financial statements for the twelve months ended December 31, 2016 included in this prospectus.

Our Industry

Carotid

Carotid arteries are located on each side of the neck and provide the primary blood supply to the brain. Carotid artery disease, also called carotid artery stenosis, is a type of atherosclerosis (hardening of the arteries) that is one of the major risk factors for ischemic stroke. In carotid artery disease, plaque accumulates in the artery walls, narrowing the artery and disrupting the blood supply to the brain. This disruption in blood supply, together with plaque debris breaking off the artery walls and traveling to the brain, are the primary causes of stroke. According to the World Heart Federation (<http://www.world-heart-federation.org/cardiovascular-health/stroke/>, last visited on Mar. 11, 2016), every year, 15 million people worldwide suffer a stroke, and nearly six million die and another five million are left permanently disabled. According to the same source, stroke is the second leading cause of disability, after dementia.

The potential global market value of carotid stents is approximately \$500 million, approximately \$300 million of which consists of the U.S. market and approximately \$200 million of which consists of the rest of the world (*source: JMP Securities 2014 and Cowen 2014*). Carotid artery stenting is a minimally invasive treatment option for carotid artery disease and an alternative to carotid endarterectomy, where a surgeon accesses the blocked carotid artery through an incision in the neck, and then surgically removes the plaque. Endovascular techniques using stents and carotid embolic prevention system protect against plaque and debris traveling downstream, blocking off the vessel and disrupting blood flow. We believe that the use of a stent with an embolic protection system should increase the number of patients being treated since it would avoid the need for complex surgery.

Coronary

Physicians and patients may select from among a variety of treatments to address coronary artery disease, including pharmaceutical therapy, balloon angioplasty, stenting with bare metal or drug-eluting stents, and coronary artery bypass graft procedures, with the selection often depending upon the stage of the disease.

The global market value of coronary products is estimated at \$5.9 billion, of which \$4.2 billion is for stable angina and \$1.7 billion is for acute myocardial infarctions according to Health Research International (June 2011). According to the 2014 MEDTECH OUTLOOK produced in December 2013 by BMO Capital Markets (“MEDTECH OUTLOOK”), revenues from the global coronary stent market are predicted to slightly decline, although in volume of stents the market is predicted to continue to grow. We believe the growth in volume is due to the appeal for less invasive percutaneous coronary intervention (“PCI”) procedures and advances in technology coupled with the increase in the elderly population, obesity rates and advances in technology.

Neurovascular

The neurovascular market focuses on catheter-delivered products used to treat strokes that already happened or unruptured brain aneurysms that could lead to strokes. In the latter case, coils are wound into blood vessel bulges to block blood flow entering the aneurysms to prevent the aneurysms from rupturing. Endovascular treatment of arterial aneurysm has evolved substantially over the past two decades, transitioning from an investigational therapy into routine clinical practice and ultimately emerging as the treatment of choice for many lesions (*source: Medtech Ventures 2009, Aneurysm Flow Modulating Device Market*). We believe that the market for aneurysm flow modulating devices is still in the embryonic stage with windows of opportunities for early entrance.

The current global market for the aneurysm flow modulating devices is estimated at \$550 million, and the current market value of the flow diversion market segment is estimated to be \$125 million. The neurovascular market includes over-the-wire, flow-guided microcatheters, guiding catheters, coil and liquid embolics, neurovascular stents and flow diversion stents. According to iData Research, the market is expected to be driven by the conversion from surgical procedures to endovascular techniques in the treatment of aneurysms and arteriovenous malformations.

Peripheral

Peripheral vascular diseases (“PVD”) are caused by the formation of atherosclerotic plaques in arteries, which carry blood to organs, limbs and head. It is also known as peripheral artery occlusive disease or peripheral artery disease. It comprises diseases pertaining to both peripheral veins and peripheral arteries, affecting the peripheral and cardiac circulation in the body. PVD includes diseases outside of the heart and brain, but most times refers to the leg and foot.

The global market value of PVDs is estimated at \$1.7 billion (*source: Global Data 2011*). The overall peripheral vascular devices market consists of nine different product segments: peripheral vascular stents, chronic total occlusion devices, peripheral transluminal angioplasty balloon catheters, atherectomy devices, percutaneous transluminal angioplasty guidewires, aortic stents, embolic protection devices, synthetic surgical grafts and inferior vena cava filters (*source: Grand View Research 2014*). Treatment modalities and methods have considerably improved during the last several years, and this trend is expected to continue (*source: Global Data 2011*). Stents and balloons hold the majority of the share in the peripheral vascular devices market. Peripheral stents are more often used in combination with balloon angioplasty to open the veins, so that blood can flow through the blocked veins in the body.

The growing prevalence of PVD is expected to cause increased demand for treatment options. The expansion of the elderly population is contributing to increasing incidence rates of PVD. The percentage of the global population above the age of 50 is expected to reach 17% by 2030. As the risk of developing PVD increases with age, a growing elderly population translates into a growing incidence of PVD (*source: Global Data 2011*). The growing global geriatric population base also triggers increasing demand for minimally invasive endovascular procedures on account of their shorter recovery time, lesser scarring and lesser chances of post-surgery infections. In addition, a growing prevalence of disease causing lifestyle factors and eating habits such as high consumption of alcohol and tobacco products is expected to boost peripheral vascular devices market demand by triggering the incidence rates of cardiac arrest, blood clotting and other vascular diseases (*source: Grand View Research 2014*).

Our Products

Below is a summary of our current products and products under development, and their intended applications.

MicroNet

MicroNet is our proprietary circular knitted mesh which wraps around a stent to protect patients from plaque debris flowing downstream upon deployment. MicroNet is made of a single fiber from a biocompatible polymer widely used

in medical implantations. The size, or aperture, of the current MicroNet ‘pore’ is only 150-180 microns in order to maximize protection against the potentially dangerous plaque and thrombus.

CGuard — Carotid Applications

Our CGuard EPS combines our MicroNet mesh and a self-expandable nitinol stent (a stent that expands without balloon dilation pressure or need of an inflation balloon) in a single device for use in carotid artery applications. MicroNet is placed over and attached to an open cell nitinol metal stent platform which is designed to trap debris and emboli that can dislodge from the diseased carotid artery and potentially travel to the brain and cause a stroke. This danger is one of the greatest limitations of carotid artery stenting with conventional carotid stents and stenting methods. The CGuard EPS technology is a highly flexible stent system that conforms to the carotid anatomy.

We believe that our CGuard EPS design provides advantages over existing therapies in treating carotid artery stenosis, such as conventional carotid stenting and surgical endarterectomy, given the superior embolic protection characteristics provided by the MicroNet. We believe the MicroNet will provide acute embolic protection at the time of the procedure, but more importantly, we believe that CGuard EPS will provide post-procedure protection against embolic dislodgement, which can occur up to 48 hours post-procedure. It is in this post-procedure time frame that embolization is the source of post-procedural strokes in the brain. Schofer, et al. (“Late cerebral embolization after emboli-protected carotid artery stenting assessed by sequential diffusion-weighted magnetic resonance imaging,” *Journal of American College of Cardiology Cardiovascular Interventions*, Volume 1, 2008) have shown that the majority of the incidents of embolic showers associated with carotid stenting occur post-procedure.

Our CGuard EPS with over-the-wire delivery system received CE mark approval in the European Union in March 2013. In October 2014, we initiated a limited market release of CGuard EPS with over-the-wire delivery system for use in carotid artery applications in Germany, Poland and Italy.

In September 2014, we reported the results of the CGuard CARENET trial at the Transcatheter Cardiovascular Therapeutics (“TCT”) conference in Washington D.C. In the CARENET trial, the CGuard EPS system demonstrated better results over historical data using conventional commercially available carotid stents. In the third quarter of 2015 the results of the CGuard CARENET trial were published in the Journal of the American College of Cardiology. In November 2015, positive twelve month follow-up data from the CGuard CARENET trial was presented at the 42nd Annual Symposium on Vascular and Endovascular Issues, documenting the benefits of the CGuard MicroNet technology as well as the patency benefits (maintaining the artery open) of the internal and external carotid arteries at twelve months.

In the first quarter of 2015, we introduced CGuard RX, the new rapid exchange delivery system for CGuard EPS. The rapid exchange delivery system has a guidewire that passes through the delivery system, running through the guiding catheter. It has one port, and thus, can be operated by one operator, while an over-the-wire-delivery system has two lumens and ports and requires two operators to perform the procedure. Our rapid exchange delivery system received CE mark approval in January 2015. We launched our CGuard EPS in Europe with the rapid exchange delivery system in multiple medical specialties that perform carotid artery stenting. These customers include interventional cardiologists, vascular surgeons, interventional neuroradiologists and interventional radiologists.

In September 2015, we announced full market launch of CGuard EPS in Europe. Subsequently, we launched CGuard EPS in Argentina and Colombia, and have received regulatory approval to commercialize CGuard EPS in Russia in November 2016. We plan to launch CGuard EPS in Russia in the first half of 2017.

We intend to conduct a clinical trial in the United States and prepared a draft clinical protocol synopsis that could support a pivotal clinical trial for a premarket approval application submission for approval by the U.S. Food and Drug Administration. A pre-IDE meeting with the U.S. Food and Drug Administration is expected to take place during the first quarter of 2017, by which we plan to seek the consent from the U.S. Food and Drug Administration to the roadmap proposed.

If we receive sufficient proceeds from the exercise of the Series C Warrants, we plan to develop CGuard EPS with a smaller delivery catheter (5 French gauge), which we intend to submit for CE mark approval within three calendar quarters of receiving such proceeds. Based on the level of interest in this product that we have observed in our clinical trials, we believe that CGuard EPS with a smaller delivery catheter will enable us to meet the market demand for minimally invasive devices, which, we believe, may have broader and easier usage, and for a lower profile system used in procedures in which predilation could be problematic. We also believe that CGuard EPS with a smaller delivery catheter will enable us to have a competitive advantage in penetrating the Asia Pacific market, since its

population is generally smaller than in Western countries. In addition, we believe that CGuard EPS with a smaller delivery catheter will enable us to offer CGuard EPS for use in transradial catheterization, which, we believe, is gaining favor among interventionalists. We cannot give any assurance that we will receive sufficient (or any) proceeds from the exercise of the Series C Warrants or the timing of receipt of such proceeds, if ever. We cannot predict when or if the Series C Warrants will be exercised. It is possible that the Series C Warrants may expire and may never be exercised.