

# INSPIREMD, INC.

## **FORM S-1** (Securities Registration Statement)

Filed 05/13/20

|             |   |
|-------------|---|
| Telephone   | (888) 776-6804  |
| CIK         | 0001433607  |
| Symbol      | NSPR  |
| SIC Code    | 3841 - Surgical and Medical Instruments and Apparatus |
| Industry    | Medical Equipment, Supplies & Distribution            |
| Sector      | Healthcare  |
| Fiscal Year | 12/31   |

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549**

**FORM S-1**

**REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933**

**InspireMD, Inc.**

(Exact name of registrant as specified in its charter)

**Delaware**  
(State or other jurisdiction of  
incorporation or organization)

**3841**  
(Primary Standard Industrial  
Classification Code Number)

**26-2123838**  
(I.R.S. Employer  
Identification Number)

**4 Menorat Hamaor St.  
Tel Aviv, Israel 6744832  
(888) 776-6804**

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

**Marvin Slosman  
Chief Executive Officer  
InspireMD, Inc.  
4 Menorat Hamaor St.  
Tel Aviv, Israel 6744832  
(888) 776-6804**

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

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

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933 check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act:

Large accelerated filer   
Non-accelerated filer

Accelerated filer   
Smaller reporting company   
Emerging Growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided to Section 7(a)(2)(B) of the Securities Act. [ ]

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CALCULATION OF REGISTRATION FEE

| <b>Title of Each Class of Securities to be Registered</b>          | <b>Proposed Maximum<br/>Aggregate Offering<br/>Price (1)</b> | <b>Amount of Registration<br/>Fee</b> |
|--|--|---------------------------------------|
| Common stock, par value \$0.0001 per share                         |  |                                       |
| Pre-funded warrants to purchase one share of common stock each (2) |  |                                       |
| Shares of common stock underlying pre-funded warrants (3)          |  |                                       |
| <b>Total:</b>  | <b>\$ 11,500,000</b>   | <b>\$ 1,493(4)</b>                    |

- (1) In accordance with Rule 416(a) under the Securities Act of 1933, as amended, the Registrant is also registering hereunder an indeterminate number of additional shares of common stock that shall be issuable pursuant to Rule 416 to prevent dilution resulting from stock splits, stock dividends or similar transactions.
- (2) The proposed maximum aggregate offering price of the shares of common stock proposed to be sold in the offering will be reduced on a dollar-for-dollar basis based on the aggregate offering price of any pre-funded warrants offered and sold in the offering. Accordingly, the proposed maximum aggregate offering price of the shares of common stock and pre-funded warrants (including the shares of common stock issuable upon exercise of the pre-funded warrants), if any, is \$[ ].
- (3) No additional registration fee is payable pursuant to Rule 457(i) under the Securities Act of 1933, as amended.
- (4) Estimated solely for the purpose of calculating the registration fee in accordance with Rule 457(o) under the Securities Act of 1933, as amended.

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

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The information in this preliminary prospectus is not complete and may be changed. These securities may not be sold until the registration statement filed with the Securities and Exchange Commission is effective. This preliminary prospectus is not an offer to sell nor does it seek an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

**PRELIMINARY PROSPECTUS**

**SUBJECT TO COMPLETION**

**DATED MAY 13, 2020**

## Shares of Common Stock

### Pre-funded Warrants to Purchase up to                      Shares of Common Stock



We are offering up to                      shares of our common stock pursuant to this prospectus.

We are also offering to each purchaser whose purchase of shares of common stock in this offering would otherwise result in the purchaser, together with its affiliates and certain related parties, beneficially owning more than 4.99% (or, at the election of the purchaser, 9.99%) of our outstanding common stock immediately following the consummation of this offering, the opportunity to purchase, if the purchaser so chooses,                      pre-funded warrants, each to purchase one share of our common stock, in lieu of shares of common stock that would otherwise result in the purchaser's beneficial ownership exceeding 4.99% of our outstanding common stock (or at the election of the purchaser, 9.99%). The purchase price of each pre-funded warrant will equal the price per share of common stock being sold to the public in this offering, minus \$0.001, and the exercise price of each pre-funded warrant will be \$0.001 per underlying share. The pre-funded warrants will be immediately exercisable and may be exercised at any time until all of the pre-funded warrants are exercised in full. This offering also relates to the shares of common stock issuable upon exercise of any pre-funded warrants sold in this offering.

For each pre-funded warrant we sell, the number of shares of common stock we are offering will be decreased on a one-for-one basis. Shares of common stock and the pre-funded warrants will not be issued or certificated. The final breakdown between shares of common stock and pre-funded warrants will be determined upon the establishment of the final public offering price and immediately prior to the execution of the underwriting agreement.

Our common stock is traded on the NYSE American under the symbol "NSPR." On May 12, 2020, the last reported sale price of our common stock was \$0.885 per share. We have assumed a public offering price of \$                      per share of common stock, the last reported sale price for our common stock as reported on the NYSE American on                      , 2020, and \$                      per pre-funded warrant. The public offering price per share of common stock and per pre-funded warrant will be determined between us and the underwriter based on market conditions at the time of pricing, and may be at a discount to the current market price of our common stock. Therefore, the assumed public offering price used throughout this prospectus may not be indicative of the final offering price. There is no established public trading market for the pre-funded warrants, and we do not expect a market to develop. We do not intend to apply for listing of the pre-funded warrants on any securities exchange or other nationally recognized trading system. Without an active trading market, the liquidity of the pre-funded warrants will be limited.

**Investing in our securities involves a high degree of risk. See "Risk Factors" beginning on page 9 of this prospectus and in the documents incorporated by reference into this prospectus for a discussion of risks that should be considered in connection with an investment in our securities.**

**Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the accuracy or adequacy of this prospectus. Any representation to the contrary is a criminal offense.**

|   | <u>Per Share</u> | <u>Per Pre-Funded Warrant</u> | <u>Total</u> |
|---|------------------|-------------------------------|--------------|
| Public offering price                                 | \$               | \$                            | \$           |
| Underwriting discounts and commissions <sup>(1)</sup> | \$               | \$                            | \$           |

|                                  |    |    |    |
|----------------------------------|----|----|----|
| Proceeds, before expenses, to us | \$ | \$ | \$ |
|----------------------------------|----|----|----|

(1) See “Underwriting” beginning on page 31 of this prospectus for a description of the compensation payable to the underwriters.

The offering is being underwritten on a firm commitment basis. We have granted a 45-day option to the representative of the several underwriters to purchase up to [●] additional shares of common stock from us solely to cover over-allotments, if any. If the representative of the several underwriters exercises this option in full, the total underwriting discounts and commissions payable by us will be \$\_\_\_\_\_, and the total proceeds to us, before expenses, will be \$\_\_\_\_\_.

The underwriters expect to deliver our securities to purchasers in the offering on or about \_\_\_\_\_, 2020.

**A.G.P.**

Prospectus dated \_\_\_\_\_, 2020

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You should rely only on the information incorporated by reference or 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 or any document incorporated by reference 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 or incorporated by reference into 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 information discussed under "Risk Factors" and the documents incorporated by reference and our financial statements and related notes that are incorporated by reference 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.*

### 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 Russia and certain countries in Latin America and Asia, including India. We expect to receive approval to launch CGuard EPS in Brazil, and we are seeking strategic partners for the potential launch of CGuard EPS in Japan and China.

In April 2017, we had a pre-investigational device exemption ("IDE") submission meeting with the U.S. Food and Drug Administration ("FDA") regarding CGuard EPS where we presented materials, including our draft synopsis for a clinical trial design, which we believed supported a formal IDE submission for the approval of a human clinical trial in the United States. The FDA agreed to our pre-clinical test plan and clinical trial design. On July 26, 2019, we submitted an IDE application for CGuard EPS. In connection with such application, on August 23, 2019, we received a request for additional information from the FDA in support of our application. We continue to work closely with the FDA to address the FDA's information and testing requests in support of our pending IDE application, as the initiation of clinical testing in the U.S. is our current highest priority. Following the resolution of all comments from the FDA, we plan to re-submit the IDE application in May 2020, as IDE approval by the FDA would be a critical step toward the commencement of a human clinical trial using CGuard EPS in the United States.

Additionally, we intend to continue to evaluate potential product and manufacturing enhancements for CGuard EPS that are expected to reduce cost of goods and/or provide the best-in-class performing delivery system. In furtherance of our strategy that focuses on establishing CGuard EPS as a viable alternative to vascular surgery, we are exploring adding a procedural protection device to our portfolio incorporating the principle of reverse flow of the carotid artery as an adjunctive alternative to femoral access. We cannot give any assurance that we will receive sufficient (or any) proceeds from future financings or the timing of such financings, if ever, for potential product enhancements and manufacturing enhancements. In addition, such additional financings may be costly or difficult to complete. Even if we receive sufficient proceeds from future financings, there is no assurance that we will be able to timely apply for CE mark approval following our receipt of such proceeds. We believe these improvements may allow us to reduce our cost of goods and increase penetration in our existing geographies and better position us for entry into new markets.

## **Our Products and Market**

We consider the addressable market for our CGuard EPS to be individuals with diagnosed, symptomatic high-grade carotid artery stenosis (HGCS,  $\geq 70\%$  occlusion) for whom an intervention is preferable to medical (drug) therapy. This group includes not only carotid artery stenting patients but also individuals undergoing carotid endarterectomy, as the two approaches compete for the same patient population. Assuming full penetration of the intervention caseload by CGuard EPS, we estimate that the addressable market for CGuard EPS was approximately \$1.0 billion in 2017 (source: *Health Research International 2017 Results of Update Report on Global Carotid Stenting Procedures and Markets by Major Geography and Addressable Markets*).

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. 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 DEST™. Due to limited resources, however, 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. The FDA has clarified that the primary mode of action for drug-eluting cardiovascular stents, which are regulated as combination products, is that of the device component and has assigned the FDA Center for Devices and Radiological Health (CDRH) primary responsibility for premarket review and regulation, providing some clarity about what to expect regarding the regulatory framework related to the development of MGuard DEST™.

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 seal aneurysms in the brain.

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

## Our Growth Strategy

Our primary business objective is to utilize our proprietary MicroNet technology and products to become the industry standard for treatment of stroke, 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 to achieve this objective.

- **Widen the adoption of CGuard EPS.** We are seeking to expand the population of CGuard EPS patients in those countries in which CGuard EPS is commercially available. In particular, our focus is on establishing CGuard EPS as a viable alternative (in appropriate cases) to conventional carotid stents and vascular surgery within the applicable medical communities. We intend to accomplish this goal by continuing to publish and present our clinical data and support investigator-initiated clinical registries. We have partnered and will continue to seek out partnerships with organizations focused on the treatment of stroke. We will also continue to engage advisory boards and to develop a network of key opinion leaders to assist us in our efforts to widen the adoption of CGuard EPS.
- **Grow our presence in existing and new markets for CGuard EPS.** We have launched CGuard EPS in most European and Latin American countries through a comprehensive distributor sales organizations network. We are continuing to focus on larger growing markets through this network by supporting our distributors with comprehensive marketing and clinical education programs. In November 2018, we obtained approval for reimbursement and commercial sale for CGuard EPS in Australia and immediately launched the product. We are also pursuing additional product registrations and distribution contracts with local distributors in other countries in Europe, Asia and Latin America.
- **Continue to leverage our 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 related to 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 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. Nineteen patent applications and patents are pending or in force (fifteen of which are issued patents) 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 our carotid products, if we resume development of our coronary products, we plan to evaluate opportunities to further develop MGuard DES.

## Recent Developments

### *COVID-19 Developments*

In December 2019, a strain of coronavirus, COVID-19, was reported to have surfaced in Wuhan, China, and has reached multiple other countries, and, on March 12, 2020, the World Health Organization (the “WHO”) declared COVID-19 to be a pandemic. In an effort to contain and mitigate the spread of COVID-19, many countries have imposed unprecedented restrictions on travel, quarantines and other public health safety measures. We have not experienced a significant COVID-19 related impact on our financial condition and results of operations in the first quarter of 2020. However, procedures with CGuard EPS, which are generally scheduled or non-emergency procedures, have mostly been postponed as hospitals shift resources to patients affected by COVID-19. To our knowledge, most European countries in which we operate are slowly reinstating elective procedures, but we do not know when the hospitals will resume to normal pre-pandemic levels with such procedures. In addition, most of our sales have historically come from Europe, where the pandemic has had a comparatively severe impact. We anticipate that the continuation of the pandemic and related restrictions and safety measures may result in a significant decline in sales of our products for the upcoming periods. Moreover, prior to the consummation of the current offering, we only have sufficient cash resources to fund operations through the end of August 2020. Consequently, we are pursuing the current offering, which, if consummated, is expected to provide us with sufficient cash resources to fund our operations for approximately the next 12 months, despite the adverse effects on our business caused by the COVID-19 pandemic. Our cash resources could suffice only for a shorter period of time after the offering is completed due to incremental spending by us on research and development, increased spending for commercial activities, or if the COVID-19 pandemic adversely affects our cash resources more than we currently anticipate. For more discussion on our risks related to COVID-19, please see the risk factors included under the “Risk Factors” section of this prospectus.

In response to significant market volatility and uncertainties relating to COVID-19, our board of directors (the “Board”) and management have taken the following voluntary reductions of compensation as a measure of fiscal responsibility:

- Effective April 1, 2020, the Board approved a 50% decrease in the annual cash compensation for non-employee directors from an aggregate amount of \$154,000 to \$77,000.
- On April 21, 2020, Marvin Slosman, our President, Chief Executive Officer and Director, signed a waiver reducing his monthly base salary from \$33,333 to \$16,666 for the period beginning April 1, 2020 and ending on such date as Mr. Slosman shall determine, and Craig Shore, our Chief Financial Officer, Chief Administrative Officer, Secretary and Treasurer, signed a waiver reducing his monthly base salary from NIS 80,125 to NIS 40,063 for the period beginning April 1, 2020 and ending on such date as Mr. Shore shall determine.
- Effective April 1, 2020, we reduced the annual salaries of most of our employees by 20% to 30% until further notice.

We expect that such reductions of the base salaries of our employees, including Mr. Slosman and Mr. Shore, will result in a decrease of approximately \$300,000 in operating expenses in the second quarter of 2020.

### *NYSE American Notifications*

**Stockholders Equity.** On August 7, 2019, we received a notification from the NYSE American that we do not meet the continued listing standards of the NYSE American as set forth in Part 10 of the NYSE American Company Guide (the “Company Guide”). Specifically, we are not in compliance with Section 1003(a)(iii) of the Company Guide because we reported stockholders’ equity of less than \$6 million as of June 30, 2019, and net losses in our five most recent fiscal years ended December 31, 2018. As a result, we became subject to the procedures and requirements of Section 1009 of the Company Guide.

On October 11, 2019, the NYSE American accepted our plan to regain compliance with Section 1003(a)(iii) of the Company Guide by August 7, 2020. We are subject to periodic review during the period covered by the compliance plan. Failure to make progress consistent with the plan or to regain compliance with the continued listing standards by the end of the plan period could result in our common stock being delisted from the NYSE American.

### Low Trading Price.

Effective March 29, 2019, we amended our amended and restated certificate of incorporation in order to effectuate a 1-for-50 reverse stock split of our outstanding shares of common stock.

In January 2019, we had received notification from the NYSE American that we were not in compliance with the NYSE American continued listing standards because our shares of common stock had been selling for a low price per share for a substantial period of time. While we were informed by the NYSE American on July 8, 2019 that we resolved that deficiency, if we are again determined to be below any of the continued listing standards within 12 months of July 8, 2019, then in accordance with Section 1009(h) of the Company Guide, the NYSE American will examine the relationship between the two incidents of noncompliance and re-evaluate our method of financial recovery from the first incident. NYSE Regulation will then take the appropriate action, which, depending on the circumstances, may include truncating the compliance procedures described in Section 1009 of the Company Guide or immediately initiating delisting proceedings. If in the future we fall below the continued listing criterion of a minimum average share price of \$0.20 over a 30-day trading period, our common stock will be subject to immediate review by NYSE American. There can be no assurance that the market price of our common stock will remain above the levels viewed as abnormally low for a substantial period of time.

### **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;
- the impact of the recent COVID-19 outbreak on our manufacturing, sales, business plan and the global economy;
- delisting of our common stock from the NYSE American;
- 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](http://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

|  |  |
|--|--|
| Common stock offered by us   | shares of our common stock.  |
| Pre-funded warrants offered by us  | We are also offering to each purchaser whose purchase of securities in this offering would otherwise result in the purchaser, together with its affiliates and certain related parties, beneficially owning more than 4.99% (or, at the election of the purchaser, 9.99%) of our outstanding shares of common stock immediately following the consummation of this offering, the opportunity to purchase, if the purchaser so chooses, pre-funded warrants, each to purchase one share of common stock in lieu of shares of common stock that would otherwise result in the purchaser's beneficial ownership exceeding 4.99% (or, at the election of the purchaser, 9.99%) of our outstanding shares of common stock. The purchase price of each pre-funded warrant will equal the public offering price at which the shares of common stock are being sold to the public in this offering, minus \$0.001, and the exercise price of each pre-funded warrant will be \$0.001 per share. The pre-funded warrants are exercisable immediately and may be exercised at any time until all of the pre-funded warrants are exercised in full. This offering also relates to the shares of common stock issuable upon exercise of any pre-funded warrants sold in this offering. For each pre-funded warrant we sell, the number of shares of common stock we are offering will be decreased on a one-for-one basis. |
| Common stock outstanding prior to this offering:   | 4,338,910 shares of common stock.  |
| Common stock outstanding after this offering:  | shares of common stock, assuming sale of the maximum number of shares of common stock offered and no sale of pre-funded warrants.  |
| Use of Proceeds  | We plan to use the net proceeds of this offering for research and development, sales and marketing, and working capital and other general corporate purposes. See "Use of Proceeds."   |
| Dividend Policy  | We have not declared or paid any cash or other dividends on our common stock, and we do not expect to declare or pay any cash or other dividends in the foreseeable future. See "Dividend Policy."   |
| Risk Factors   | Investing in our securities involves a high degree of risk. See "Risk Factors" beginning on page 9 of this prospectus and the other information included or incorporated by reference in this prospectus.  |
| NYSE American symbol for common stock:   | "NSPR." We do not plan to list the pre-funded warrants on the NYSE American or any other securities exchange or trading market. There is no established trading market for the pre-funded warrants, and we do not expect a trading market to develop. Without a trading market, the liquidity of the pre-funded warrants will be extremely limited.  |
| The number of shares of common stock to be outstanding immediately after this offering is based on 4,338,910 shares of our common stock outstanding as of May 12, 2020, and excludes, as of such date: |  |
|  | <ul style="list-style-type: none"><li>• 4,016,597 shares of common stock issuable upon exercise of outstanding warrants, with an exercise price ranging from \$1.80 to \$32,266 per share and having a weighted average exercise price of \$9.77 per share;</li></ul>  |

- 555,138 shares of common stock issuable upon conversion of the outstanding Series B Convertible Preferred Stock (the “Series B Preferred Stock”) (including the payment of the cumulative dividends accrued on the Series B Preferred Stock in an aggregate of 237,916 shares of common stock but excluding additional shares of common stock that we will be required to issue to the holders of our Series B Preferred Stock upon conversion of shares of our Series B Preferred Stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Preferred Stock because the effective assumed public offering price of common stock in this offering is lower than \$1.80 per share), at the conversion price of \$1.80 per share and the stated value per share of \$33.00;
- 94,428 shares of common stock issuable upon conversion of the outstanding Series C Convertible Preferred Stock (the “Series C Preferred Stock”) (excluding additional shares of common stock that we will be required to issue to the holders of our Series C Preferred Stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series C Preferred Stock because the effective assumed public offering price of common stock in this offering is lower than \$1.80 per share) at the conversion price of \$1.80 per share and the stated value per share of \$6.40;
- additional shares of common stock that we will be required to issue to the holders of our Series B Preferred Stock upon conversion of shares of our Series B Preferred Stock (including the payment of the cumulative 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 Preferred Stock and additional shares of common stock that we will be required to issue to the holders of our Series C Preferred Stock upon conversion of shares of our Series C Preferred Stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series C Preferred Stock, in each case, based on [17,303] shares of Series B Preferred Stock outstanding and 26,558 shares of Series C Preferred Stock outstanding, and an assumed public offering price of \$ per share, which is the last reported sale price for our common stock as reported on the NYSE American on , 2020 (see “*Risk Factors — Risks Related to Our Common Stock, Preferred Stock, Warrants and this Offering—If the effective price per share of common stock being offered...*”);
- 63,402 shares of common stock issuable upon conversion of the Series B Preferred Stock (including an aggregate of 27,170 shares of common stock for the payment of the cumulative dividends accrued on the Series B Preferred Stock issuable upon conversion of the Series B Preferred Stock) and exercise of the Series A Warrants included in the units issuable upon exercise of the unexercised portion of the unit purchase option that we issued to Dawson James Securities, Inc. (“Dawson James”), the placement agent in the public offering that closed on July 7, 2016;
- additional shares of common stock that we will be required to issue to Dawson James upon conversion of shares of Series B Preferred Stock (including the payment of the cumulative dividends thereunder in common stock) included in the units issuable upon exercise of the unexercised portion of the unit purchase option that we issued to Dawson James, the placement agent in the public offering that closed on July 7, 2016, as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Preferred Stock, based on the adjusted Series B Preferred Stock conversion price equal to the effective assumed public offering price per share of common stock, based on an assumed public offering price of \$ per share, which is the last reported sale price for our common stock as reported on the NYSE American on , 2020 (see “*Risk Factors — Risks Related to Our Common Stock, Preferred Stock, Warrants and this Offering—If the effective price per share of common stock being offered...*”);
- 60,929 shares of common stock issuable upon the exercise of outstanding options, with exercise prices ranging from \$0.001 to \$3,675,000 and having a weighted average exercise price of \$67,720 per share;
- 182,381 shares of common stock issuable upon the exercise of Restricted Stock Units outside our 2013 Long-Term Incentive Plan; and
- 483,491 shares of common stock available for future issuance under our 2013 Long-Term Incentive Plan.

Except as otherwise indicated, all information in this prospectus assumes no exercise of the underwriters’ option to purchase additional shares and no sale of pre-funded warrants in this offering, which, if sold, would reduce the number of shares of common stock that we are offering on a one-for-one basis.

## 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 and the information and documents incorporated by reference. You should also consider the risks, uncertainties and assumptions discussed under the heading "Risk Factors" included in our most recent annual report on Form 10-K and other reports that we file with the SEC which are on file with the SEC and are incorporated herein by reference, and which may be amended, supplemented or superseded from time to time by subsequent quarterly reports on Form 10-Q or other reports we file with the SEC in the future. 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 titled "Cautionary Note Regarding Forward-Looking Statements."*

### **Risks Related to Our Business**

***The recent COVID-19 outbreak has caused interruptions or delays of our business plan and may have a significant adverse effect on our business.***

In December 2019, a strain of coronavirus, COVID-19, was reported to have surfaced in Wuhan, China, and has reached multiple other countries, and, on March 12, 2020, the WHO declared COVID-19 to be a pandemic. In an effort to contain and mitigate the spread of COVID-19, many countries have imposed unprecedented restrictions on travel, quarantines and other public health safety measures. Procedures with CGuard EPS, which are generally scheduled or non-emergency procedures, have mostly been postponed as hospitals shift resources to patients affected by COVID-19, and we do not know when the hospitals will resume to normal pre-pandemic levels with such procedures. In addition, most of our sales have historically come from Europe, where the pandemic has had a comparatively severe impact. At this point, the extent to which COVID-19 may impact our business cannot be estimated; however, we anticipate that the continuation of the pandemic and related restrictions and safety measures may result in a significant decline in sales of our products for the upcoming periods.

Certain component parts of our delivery system are sourced from countries that have been impacted by COVID-19, and the continued outbreak and spreading of COVID-19 may adversely impact our suppliers and in turn our manufacture of CGuard EPS. Although the manufacturing of our products in Israel has not been impacted by COVID-19 as of May 2020, we cannot guarantee that we will continue to manufacture at full capacity in the event that the pandemic continues to spread and further restrictions are imposed.

Moreover, prior to the consummation of this offering, we only have sufficient resources to fund operations through the end of August 2020. Consequently, management is pursuing the current offering and will consider various future financing alternatives to fund our operations so we can continue as a going concern. However, the COVID-19 pandemic has created significant economic uncertainty and volatility in the credit and capital markets. Management may secure additional new financings through the issue of new equity and/or the entering into of strategic partnership arrangements; however, there is no assurance that our management will be able to obtain such additional financings on reasonable terms or at all. A continuation or worsening of the levels of market disruption and volatility seen in the recent past could have an adverse effect on our ability to access capital and on the market price of our common stock, and we may not be able to successfully raise capital through the sale of our securities. If we are unsuccessful in commercializing our products or raising capital, we may need to reduce activities, curtail or cease operations.

The extent to which COVID-19 impacts our results will depend on future developments, which are highly uncertain and cannot be predicted as of the current date, including new information which may emerge concerning the severity of COVID-19 and the actions deemed necessary by various countries in order to contain COVID-19 or treat its impact, among others. The COVID-19 outbreak has had, and will continue to have for the foreseeable future, indeterminable adverse effects on general commercial activity and the world economy at large, and, accordingly, our business and results of operations could be adversely affected to the extent that COVID-19 or any other epidemic harms the global economy generally.

## Risks Related to Our Securities 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 and Series B 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. Moreover, on March 12, 2020, the WHO declared COVID-19 to be a pandemic, and the COVID-19 pandemic has resulted in significant financial market volatility and uncertainty, which has persisted up through the current date. A continuation or worsening of the levels of market disruption and volatility seen in the recent past could have an adverse effect on our ability to access capital, on our business, results of operations and financial condition, and on the market price of our common stock.

***Our common stock could be delisted from the NYSE American if we fail to regain compliance with the NYSE American's stockholders' equity continued listing standards. Our ability to publicly or privately sell equity securities and the liquidity of our common stock could be adversely affected if we are delisted from the NYSE American.***

On August 7, 2019, we received a notice indicating that we do not meet certain of the NYSE American's continued listing standards as set forth in Part 10 of the Company Guide. Specifically, we were not in compliance with Section 1003(a)(iii) of the Company Guide because we reported stockholders' equity of less than \$6 million as of June 30, 2019, and had net losses in our five most recent fiscal years ended December 31, 2018. As a result, we had become subject to the procedures and requirements of Section 1009 of the Company Guide. On August 25, 2019, we submitted a plan of compliance to NYSE Regulation, addressing how we intend to regain compliance with Section 1003(a)(iii) of the Company Guide by August 7, 2020, and on October 11, 2019, NYSE American accepted our plan. We are subject to periodic review during the period covered by the compliance plan.

If we do not regain compliance by August 7, 2020, or fail to maintain our compliance with Section 1003(a)(iii) of the Company Guide following August 7, 2020, or if we do not maintain our progress consistent with the plan during the applicable plan period, the NYSE American will initiate delisting proceedings. There is no assurance that we will be able to regain compliance with Section 1003(a)(iii) of the Company Guide as of August 7, 2020. Even if the net proceeds from our capital raises provide us with sufficient stockholders' equity to regain compliance with Section 1003(a)(iii) of the Company Guide by August 7, 2020, we will be subject to ongoing review for compliance with NYSE American requirements, and there can be no assurance that we will continue to remain in compliance with this standard.

Delisting from NYSE American would adversely affect our ability to raise additional financing through the public or private sale of equity securities, would significantly affect the ability of investors to trade our securities and would negatively affect the value and liquidity of our common stock. Delisting could also have additional negative ramifications, including the potential loss of confidence by employees, the loss of institutional investor interest and fewer business development opportunities.

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

On January 7, 2019, we received notification from the NYSE American that our shares of common stock have been selling for a low price per share for a substantial period of time. Pursuant to Section 1003(f)(v) of the Company Guide, the NYSE American 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. NYSE American advised us that if our common stock trades below \$0.20 on a 30 trading day average, then it will be considered non-compliant with NYSE American's low selling price requirement. On March 29, 2019, we effected a 1-for-50 reverse stock split of our common stock.

Although on July 8, 2019, we received notice from NYSE American that we have resolved the continued listing deficiency with respect to low selling price pursuant to Section 1003(f)(v) of the Company Guide, in accordance with Section 1009(h) of the Company Guide, if we are again determined to be below any of the continued listing standards within 12 months of July 8, 2019, NYSE American will examine the relationship between the two incidents of noncompliance and re-evaluate our method of financial recovery from the first incident. NYSE Regulation will then take the appropriate action, which depending on the circumstances, may include truncating the compliance procedures described in section 1009 of the Company Guide or immediately initiating delisting proceedings. If in the future we fall below the continued listing criterion of a minimum average share price of \$0.20 over a 30-day trading period, our common stock will be subject to immediate review by NYSE American. There can be no assurance that the market price of our common stock will remain above the levels viewed as abnormally low for a substantial period of time. In any event, other factors unrelated to the number of shares of our common stock outstanding, such as negative financial or operational results, could adversely affect the market price of our common stock, causing it to fall below the level viewed as a low selling price for a substantial period of time, and lead the NYSE American to immediately suspend trading in our common stock.

In addition, the NYSE American 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.

***If you purchase our securities sold in this offering you may experience immediate dilution in your investment as a result of this offering.***

Because the effective price per share of common stock being offered or issuable upon exercise of the pre-funded warrants being offered in this offering may be substantially higher than the net tangible book value per share of our common stock, you may experience substantial dilution to the extent of the difference between the effective offering price per share of common stock you pay in this offering and the net tangible book value per share of our common stock immediately after this offering. Our net tangible book value as of March 31, 2020, was approximately \$3.5 million, or \$0.81 per share of common stock. Net tangible book value per share is equal to our total tangible assets minus total liabilities, all divided by the number of shares of common stock outstanding. See "Dilution" on page 20 below for a more detailed discussion of the dilution you may incur if you participate in this offering.

Furthermore, the anti-dilution provisions of our Series B and C Preferred Stock may result in further dilution of your investment (see "*Risk Factors — Risks Related Our Common Stock, Preferred Stock and Warrants and this Offering —If the effective price per share of common stock being offered...*").

***If the effective price per share of common stock being offered or issuable upon exercise of the pre-funded warrants being offered in this offering is less than the respective current conversion price of our Series B or Series C Preferred Stock, we will be required to issue additional shares of common stock, as applicable, to the holders of the preferred stock, which will be dilutive to all of our other stockholders, including new investors in this offering.***

The respective certificate of designation for our Series B Preferred Stock and Series C 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. In accordance with this anti-dilution price protection, because the effective common stock purchase price in each of the March 2018 public offering, the April 2018 public offering, the July 2018 public offering, the April 2019 public offering and the September 2019 public offering, was below the then current Series B Preferred Stock and the Series C Preferred Stock conversion price, we reduced the Series B Preferred Stock and the Series C Preferred Stock conversion price upon pricing of each such public offering. As a result of these obligations, if the effective price per share of common stock being offered or issuable upon exercise of the pre-funded warrants being offered in this offering is less than the respective current conversion price of our Series B or Series C Preferred Stock, each of these conversion prices shall be reduced to the effective price per share of common stock being offered or issuable upon exercise of the pre-funded warrants being offered in this offering. This reduction in the conversion prices will result in a greater number of shares of common stock being issuable upon conversion of the Series B Preferred Stock or Series C Preferred Stock for no additional consideration, causing greater dilution to our stockholders and investors in this offering. In addition, should we issue any securities following this offering at an effective common stock purchase price that is less than the then effective conversion price of our Series B Preferred Stock or Series C Preferred Stock, we will be required to further reduce the conversion prices of our Series B Preferred Stock and Series C Preferred Stock, which will result in a greater dilutive effect on our stockholders. Furthermore, 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 may not have a sufficient number of authorized and available shares to satisfy the conversion of the Series B Preferred Stock or the Series C Preferred Stock if we enter into a future transaction that reduces the applicable conversion price. The foregoing features will increase the number of shares of common stock issuable upon conversion, assuming that the effective offering price of our common stock in a subsequent financing is lower than the conversion price of these securities then in effect, of the Series B Preferred Stock or Series C Preferred Stock for no additional consideration, and will result in a greater dilutive effect on our stockholders.

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

Subject to lock-up provisions described under “Underwriting,” we are generally not restricted from issuing additional securities, 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. In particular, we may conduct one or more additional offerings following this offering and may seek waiver of the lock-up provisions described under “Underwriting” to conduct such offerings. The issuance of securities in these or any other offerings may cause further dilution to our stockholders, including investors in this offering. In order to raise additional capital, such securities may be at prices that are not 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.

***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 Preferred Stock upon conversion of shares of our Series B Preferred Stock and the payment of the dividends thereunder in common stock and to the holders of our Series C Preferred Stock upon conversion of such shares of our Series C Preferred Stock, as a result of the full ratchet anti-dilution price protection in the respective certificate of designation for the Series B Preferred Stock and the Series C Preferred Stock, if the effective common stock purchase price in a subsequent offering is less than the respective then current conversion price of the Series B Preferred Stock or the Series C Preferred Stock, which in turn will increase the number of shares of common stock available for sale. See “Risk Factors — Risks Related to Our Common Stock, Preferred Stock and Warrants and this Offering — If the effective price per share of common stock being offered...”

In addition, the fact that our stockholders, option holders and warrant holders 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.

***We do not expect to pay dividends in the future. As a result, any return on investment may be limited to the value of our common stock.***

We do not anticipate paying cash dividends on our common stock in the foreseeable future. The payment of dividends on our common stock will depend on our earnings, financial condition and other business and economic factors as our board of directors may consider relevant. If we do not pay dividends, our common stock may be less valuable because a return on an investment in our common stock will only occur if our stock price appreciates.

***The Series B 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 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 Preferred Stock, which is July 7, 2021. 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 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 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. 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. In light of our recurring losses and negative cash flows from operating activities, we do not expect to have cash available to pay the dividends on our Series B Preferred Stock or to be permitted to make such payments under Delaware law, and will be relying on having available shares of common stock to pay such dividends, which will result in dilution to our stockholders. If we do not have such available shares, we may not be able to satisfy our dividend obligations.

***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 for research and development, sales and marketing, and working capital and other 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 and cause the price of our common stock to decline.

***There is no public market for the pre-funded warrants being offered by us in this offering.***

There is no established public trading market for the pre-funded warrants and we do not expect a market to develop. In addition, we do not intend to apply to list the pre-funded warrants on any national securities exchange or other nationally recognized trading system, including NYSE American. Without an active market, the liquidity of the pre-funded warrants will be limited, which may adversely affect their value.

***Holders of pre-funded warrants purchased in this offering will have no rights as common stockholders until such holders exercise their pre-funded warrants and acquire our common stock.***

Until holders of pre-funded warrants acquire shares of our common stock upon exercise thereof, such holders will have no rights with respect to the shares of our common stock underlying the pre-funded warrants. Upon exercise of the pre-funded warrants, the holders will be entitled to exercise the rights of a common stockholder only as to matters for which the record date occurs after the exercise date.

***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.

***We have a staggered board of directors, which could impede an attempt to acquire us or remove our management.***

Our board of directors is divided into three classes, each of which serves for a staggered term of three years. This division of our board of directors could have the effect of impeding an attempt to take over our company or change or remove management, since only one class will be elected annually. Thus, only approximately one-third of the existing board of directors could be replaced at any election of directors.

***As a former shell company, resales of shares of our restricted common stock in reliance on Rule 144 of the Securities Act are subject to the requirements of Rule 144(i).***

We previously were a “shell company” and, as such, sales of our securities pursuant to Rule 144 under the Securities Act of 1933, as amended, cannot be made unless, among other things, at the time of a proposed sale, we are subject to the reporting requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, as amended, and have filed all reports and other materials required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 as amended, as applicable, during the preceding 12 months, other than Form 8-K reports. Because, as a former shell company, the reporting requirements of Rule 144(i) will apply regardless of holding period, restrictive legends on certificates for shares of our common stock cannot be removed except in connection with an actual sale that is subject to an effective registration statement under, or an applicable exemption from the registration requirements of, the Securities Act of 1933, as amended. Because our unregistered securities cannot be sold pursuant to Rule 144 unless we continue to meet such requirements, any unregistered securities we issue will have limited liquidity unless we continue to comply with such requirements.

*If securities and/or industry analysts fail to continue publishing research about our business, if they change their recommendations adversely or if our results of operations do not meet their expectations, our stock price and trading volume could decline.*

The trading market for our common stock will be influenced by the research and reports that industry or securities analysts publish about us or our business. If one or more of these analysts cease coverage of our company or fail to publish reports on us regularly, we could lose visibility in the financial markets, which in turn could cause our stock price or trading volume to decline. In addition, it is likely that in some future period our operating results will be below the expectations of securities analysts or investors. If one or more of the analysts who cover us downgrade our stock, or if our results of operations do not meet their expectations, our stock price could decline.

#### 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,” “will,” “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 out stockholders’ ownership interests;
- the impact of the recent COVID-19 outbreak on our manufacturing, sales, business plan and the global economy;
- our ability to regain or maintain compliance with NYSE American listing standards;
- 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 of our products;
- negative clinical trial results or lengthy product delays in key markets;
- an inability to secure and maintain regulatory approvals for the sale 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;
- inability to carry out research, development and commercialization plans;
- loss of a key customer or supplier;
- technical problems with our research and products and potential product liability claims;
- product malfunctions;
- price increases for supplies and components;
- adverse economic conditions;
- insufficient or inadequate reimbursement by governmental and other third-party payers for our products;
- our efforts to successfully obtain and maintain intellectual property protection covering our products, which may not be successful;
- adverse federal, state and local government regulation, in the United States, Europe or Israel and other foreign jurisdictions;
- the fact that we conduct business in multiple foreign jurisdictions, exposing us to foreign currency exchange rate fluctuations, logistical and communications challenges, burdens and costs of compliance with foreign laws and political and economic instability in each jurisdiction;
- the escalation of hostilities in Israel, which could impair our ability to manufacture our products; 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 9 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

Assuming we sell all securities offered pursuant to this prospectus, we estimate that we will receive net proceeds from this offering of approximately \$ million from the sale of our securities in this offering, based upon an assumed public offering price of \$ per share of common stock (the last reported sale price of our common stock on the NYSE American on , 2020), assuming the sale of all shares of common stock and no sale of any pre-funded warrants offered in this offering and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us as described in "Underwriting." If the underwriter's option to purchase additional shares in this offering is exercised in full, we estimate that our net proceeds from this offering will be approximately \$ million, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

We intend to use the net proceeds of this offering for research and development, sales and marketing, and working capital and other general corporate purposes. We do not currently have more specific plans or commitments with respect to the net proceeds from this offering and, accordingly, are unable to quantify the allocation of such proceeds among the various potential uses.

The expected use of net proceeds of this offering represents our current intentions based upon our present plan and business conditions. 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 intend to hold such funds in cash or invest the funds in short-term, investment grade, interest-bearing securities.

A \$0.10 increase or decrease in the assumed public offering price of \$ per share of common stock, based on the last reported sale price for our common stock as reported on the NYSE American on 2020, would increase or decrease the net proceeds to us by approximately \$ , assuming the assumed public offering price of \$ per share of common stock remains the same, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

Similarly, an increase or decrease of 100,000 shares of common stock offered by us, as set forth on the cover page of this prospectus, would increase or decrease the net proceeds to us by approximately \$ , assuming the assumed public offering price of \$ per share of common stock remains the same, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

## CAPITALIZATION

The following table summarizes our cash and cash equivalents, certain other items from our historical consolidated balance sheet, and capitalization as of March 31, 2020:

- on an actual basis; and
- on an as adjusted basis, giving effect to the sale by us of shares of common stock in this offering at an assumed public offering price of \$ per share of common stock, which is the last reported sale price of our common stock on the NYSE American on , 2020, after deducting the estimated underwriting discounts and estimated offering expenses, and assuming no sale of any pre-funded warrants in this offering.

The as adjusted information below is illustrative only and our capitalization following the completion of this offering is subject to various adjustments. For the purposes of this capitalization discussion on an as adjusted basis, we also took into account, assuming an assumed public offering price of \$ per share of common stock, which is the last reported sale price of our common stock on the NYSE American on , 2020, the issuance of additional shares of common stock that we will be required to issue to the holders of our Series B Preferred Stock upon conversion of shares of our Series B Preferred Stock (including the payment of the cumulative dividends thereunder in common stock) and additional shares of common stock that we will be required to issue to the holders of our Series C Preferred Stock upon conversion of shares of our Series C Preferred Stock, each as a result of the full ratchet anti-dilution price protection in the respective certificate of designation for the Series B Preferred Stock and the Series C Preferred Stock, based on 17,303 shares of Series B Preferred Stock outstanding as of March 31, 2020, and 26,558 shares of Series C Preferred Stock outstanding as of March 31, 2020. 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 incorporated by reference into this prospectus.

|   | <b>March 31, 2020</b>             |                    |
|---|-----------------------------------|--------------------|
|   | <b>(in thousands) (unaudited)</b> |                    |
|   | <b>Actual</b>                     | <b>As Adjusted</b> |
| Cash and cash equivalents   | \$ 3,141                          | \$                 |
| <b>Equity:</b>  |                                   |                    |
| Common stock, par value \$0.0001 per share – 150,000,000 shares authorized; 4,338,910 shares issued and outstanding actual and shares outstanding as adjusted | \$ -                              | \$                 |
| 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  | -                                 |                    |
| Series B Convertible Preferred Stock, par value \$0.0001 per share; 17,303 shares issued and outstanding actual and as adjusted                               | -                                 |                    |
| Series C Convertible Preferred Stock, par value \$0.0001 per share; 26,558 shares issued and outstanding actual and as adjusted                               | -                                 |                    |
| Additional paid-in capital  | 163,087                           |                    |
| Accumulated deficit   | (159,610)                         |                    |
| Total equity  | \$ 3,477                          | \$                 |

A \$0.10 increase or decrease in the assumed combined public offering price of \$ \_\_\_\_\_ per share of common stock, which is the last reported sale price of our common stock on the NYSE American on \_\_\_\_\_, 2020, would increase or decrease, as appropriate, our as adjusted cash and cash equivalents, additional paid-in capital, total stockholders' equity and total capitalization by approximately \$ \_\_\_\_\_, assuming the number of shares of common stock offered by us as set forth on the cover page of this prospectus remains the same, and after deducting the estimated underwriting discounts and estimated offering expenses payable by us.

Similarly, an increase of 100,000 shares of common stock or decrease in the number of shares of common stock offered by us, based on the assumed combined public offering price of \$ \_\_\_\_\_ share of common stock unit, would increase or decrease our as adjusted cash and cash equivalents, total assets and total stockholders' equity by approximately \$ \_\_\_\_\_, after deducting the estimated underwriting discounts and estimated offering expenses payable by us.

The above discussion and table are based on 4,338,910 shares outstanding as of March 31, 2020, and excludes as of that date:

- 4,016,597 shares of common stock issuable upon exercise of outstanding warrants, with an exercise price ranging from \$1.80 to \$32,266 per share and having a weighted average exercise price of \$9.77 per share;
- 555,138 shares of common stock issuable upon conversion of the outstanding Series B Preferred Stock (including the payment of the cumulative dividends accrued on the Series B Preferred Stock in an aggregate of 237,916 shares of common stock but excluding additional shares of common stock that we will be required to issue to the holders of our Series B Preferred Stock upon conversion of shares of our Series B Preferred Stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Preferred Stock because the effective assumed public offering price of common stock in this offering is lower than \$1.80 per share), at the conversion price of \$1.80 per share and the stated value per share of \$33.00;
- 94,428 shares of common stock issuable upon conversion of the outstanding Series C Preferred Stock (excluding additional shares of common stock, if any, that we will be required to issue to the holders of our Series C Preferred Stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series C Preferred Stock because the effective assumed public offering price of common stock in this offering is lower than \$1.80 per share) at the conversion price of \$1.80 per share and the stated value per share of \$6.40;
- 63,402 shares of common stock issuable upon conversion of the Series B Preferred Stock (including an aggregate of 27,170 shares of common stock for the payment of the cumulative dividends accrued on the Series B Preferred Stock issuable upon conversion of the Series B Preferred Stock) and exercise of the Series A Warrants included in the units issuable upon exercise of the unexercised portion of the unit purchase option that we issued to Dawson James, the placement agent in the public offering that closed on July 7, 2016;
- \_\_\_\_\_ additional shares of common stock that we will be required to issue to Dawson James upon conversion of shares of Series B Preferred Stock (including the payment of the cumulative dividends thereunder in common stock) included in the units issuable upon exercise of the unexercised portion of the unit purchase option that we issued to Dawson James, the placement agent in the public offering that closed on July 7, 2016, as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Preferred Stock, based on the adjusted Series B Preferred Stock conversion price equal to the effective assumed public offering price per share of common stock, based on an assumed public offering price of \$ \_\_\_\_\_ per unit, which is the last reported sale price for our common stock as reported on the NYSE American on \_\_\_\_\_, 2020 (see "*Risk Factors — Risks Related to Our Common Stock, Preferred Stock, Warrants and this Offering—If the effective price per share of common stock being offered...*");
- 60,929 shares of common stock issuable upon the exercise of outstanding options with exercise prices ranging from \$0.001 to \$3,675,000 and having a weighted average exercise price of \$67,720 per share;
- 483,491 shares of common stock available for future issuance under our 2013 Long-Term Incentive Plan;
- 182,381 shares of common stock issuable upon the exercise of Restricted Stock Units outside our 2013 Long-Term Incentive Plan; and
- \_\_\_\_\_ shares of common stock issuable upon exercise of the pre-funded warrants offered hereby by us at an exercise price of \$0.001 per share;

## DILUTION

Our net tangible book value as of March 31, 2020, was approximately \$3.5 million, or \$0.81 per share. Net tangible book value per share is determined by dividing our total tangible assets, less total liabilities, by the number of shares of our common stock outstanding as of March 31, 2020. Dilution with respect to net tangible book value per share represents the difference between the amount per share paid by purchasers of shares of common stock in this offering and the net tangible book value per share of our common stock immediately after this offering.

After giving effect to (i) the assumed sale of \_\_\_\_\_ shares of common stock in this offering at an assumed public offering price of \$ \_\_\_\_\_ per share of common stock, based on the last reported sale price of our common stock on the NYSE American on \_\_\_\_\_, 2020, assuming no sale of any pre-funded warrants in this offering and after deducting the underwriting discounts and estimated offering expenses payable by us, and (ii) the issuance of \_\_\_\_\_ additional shares of common stock that we will be required to issue to the holders of our Series B Preferred Stock upon conversion of shares of our Series B Preferred Stock (including the payment of the cumulative dividends thereunder in common stock) and \_\_\_\_\_ additional shares of common stock that we will be required to issue to the holders of our Series C Preferred Stock upon conversion of shares of our Series C Preferred Stock, each as a result of the full ratchet anti-dilution price protection in the respective certificate of designation for the Series B Preferred Stock and the Series C Preferred Stock, based on 17,303 shares of Series B Preferred Stock outstanding as of March 31, 2020, and 26,558 shares of Series C Preferred Stock outstanding as of March 31, 2020, our as adjusted net tangible book value as of March 31, 2020, would have been approximately \$ \_\_\_\_\_, or \$ \_\_\_\_\_ per share, based on \_\_\_\_\_ shares of common stock outstanding on an as adjusted basis at that time. This represents an immediate increase in net tangible book value of \$ \_\_\_\_\_ per share to existing stockholders and immediate dilution of \$ \_\_\_\_\_ per share to investors purchasing our securities in this offering at the assumed public offering price.

The following table illustrates this dilution on a per share basis:

|  |          |          |
|--|----------|----------|
| Assumed public offering price per share  |          | \$       |
| Historical net tangible book value per share as of March 31, 2020  | \$ 0.81  |          |
| Increase in net tangible book value per share attributable to this offering                              | \$ _____ |          |
| As adjusted net tangible book value per share as of March 31, 2020, after giving effect to this offering |          | \$ _____ |
| Dilution per share to new investors in this offering   |          | \$ _____ |

If the underwriter exercises its option to purchase additional shares of common stock in full at the public offering price of \$ \_\_\_\_\_ per share, less underwriting discounts and commissions, our as adjusted net tangible book value after this offering would be approximately \$ \_\_\_\_\_, or \$ \_\_\_\_\_ per share, representing an increase in net tangible book value of approximately \$ \_\_\_\_\_ per share to existing stockholders and immediate dilution in net tangible book value of approximately \$ \_\_\_\_\_ per share to investors purchasing our securities in this offering at the public offering price.

A \$0.10 increase or decrease in the assumed public offering price of \$ \_\_\_\_\_ per share of common stock, which is the last reported sale price of our common stock on the NYSE American on \_\_\_\_\_, 2020, would increase or decrease our net tangible book value per share after this offering by approximately \$ \_\_\_\_\_, and increase dilution per share to new investors by approximately \$ \_\_\_\_\_ or decrease dilution per share to new investors by approximately \$ \_\_\_\_\_, after deducting estimated underwriting discounts and estimated offering expenses payable by us.

We may also increase or decrease the number of shares of common stock we are offering. An increase or decrease of 100,000 shares of common stock offered by us would increase or decrease our net tangible book value per share after this offering by approximately \$ \_\_\_\_\_, and have no significant impact on dilution per share to new investors, after deducting estimated underwriting discounts and estimated offering expenses payable by us. The information discussed above is illustrative only and will adjust based on the actual offering price, the actual number of shares of common stock we offer in this offering, and other terms of this offering determined at pricing.

The above discussion and table are based on 4,338,910 shares outstanding as of March 31, 2020, and excludes, as of that date:

- 4,016,597 shares of common stock issuable upon exercise of outstanding warrants, with an exercise price ranging from \$1.80 to \$32,266 per share and having a weighted average exercise price of \$9.77 per share;
- 555,138 shares of common stock issuable upon conversion of the outstanding Series B Preferred Stock (including the payment of the cumulative dividends accrued on the Series B Preferred Stock in an aggregate of 237,916 shares of common stock but excluding additional shares of common stock that we will be required to issue to the holders of our Series B Preferred Stock upon conversion of shares of our Series B Preferred Stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Preferred Stock because the effective assumed public offering price of common stock in this offering is lower than \$1.80 per share), at the conversion price of \$1.80 per share and the stated value per share of \$33.00;
- 94,428 shares of common stock issuable upon conversion of the outstanding Series C Preferred Stock (excluding additional shares of common stock, if any, that we will be required to issue to the holders of our Series C Preferred Stock as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series C Preferred Stock because the effective assumed public offering price of common stock in this offering is lower than \$1.80 per share) at the conversion price of \$1.80 per share and the stated value per share of \$6.40;
- 63,402 shares of common stock issuable upon conversion of the Series B Preferred Stock (including an aggregate of 27,170 shares of common stock for the payment of the cumulative dividends accrued on the Series B Preferred Stock issuable upon conversion of the Series B Preferred Stock) and exercise of the Series A Warrants included in the units issuable upon exercise of the unexercised portion of the unit purchase option that we issued to Dawson James, the placement agent in the public offering that closed on July 7, 2016;
- \_\_\_\_\_ additional shares of common stock that we will be required to issue to Dawson James upon conversion of shares of Series B Preferred Stock (including the payment of the cumulative dividends thereunder in common stock) included in the units issuable upon exercise of the unexercised portion of the unit purchase option that we issued to Dawson James, the placement agent in the public offering that closed on July 7, 2016, as a result of the full ratchet anti-dilution price protection in the certificate of designation for the Series B Preferred Stock, based on the adjusted Series B Preferred Stock conversion price equal to the effective assumed public offering price per share of common stock, based on an assumed public offering price of \$ \_\_\_\_\_ per share of common stock, which is the last reported sale price for our common stock as reported on the NYSE American on \_\_\_\_\_, 2020 (see “*Risk Factors — Risks Related to Our Common Stock, Preferred Stock, Warrants and this Offering—If the effective price per share of common stock included being offered...*”);
- 60,929 shares of common stock issuable upon the exercise of outstanding options with exercise prices ranging from \$0.001 to \$3,675,000 and having a weighted average exercise price of \$67,720 per share;
- 483,491 shares of common stock available for future issuance under our 2013 Long-Term Incentive Plan;
- 182,381 shares of common stock issuable upon the exercise of Restricted Stock Units outside our 2013 Long-Term Incentive Plan; and
- \_\_\_\_\_ shares of common stock issuable upon exercise of the pre-funded warrants offered hereby by us at an exercise price of \$0.001 per share.

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.

## **INFORMATION REGARDING THE MARKET FOR OUR COMMON STOCK**

Our common stock trades on the NYSE American under the symbol “NSPR.” The last reported sale price for our common stock on May 12, 2020, was \$0.885 per share. As of May 12, 2020, we had approximately 264 holders of record of our common stock. The number of record holders was determined from the records of our transfer agent and does not include beneficial owners of common stock whose shares are held in the names of various security brokers, dealers and registered clearing agencies.

### **DIVIDEND POLICY**

In the past, we have not declared or paid cash dividends on our common stock. We do not intend to pay cash dividends in the future, rather, we intend to retain future earnings, if any, to fund the operation and expansion of our business and for general corporate purposes.

## DESCRIPTION OF SECURITIES

We are offering (i) up to \_\_\_\_\_ shares of our common stock and (ii) up to \_\_\_\_\_ pre-funded warrants, each to purchase one share of our common stock. For each pre-funded warrant we sell, the number of shares of common stock we are offering will be decreased on a one-for-one basis. The shares of common stock and pre-funded warrants will not be issued or certificated. We are also registering the shares of common stock issuable from time to time upon exercise of the pre-funded warrants.

We have 155,000,000 shares of capital stock, par value \$0.0001 per share, authorized, of which 150,000,000 are shares of common stock and 5,000,000 are shares of “blank check” preferred stock. On May 12, 2020, there were 4,338,910 shares of common stock, 17,303 shares of Series B Preferred Stock and 26,558 shares of Series C Preferred Stock issued and outstanding. We currently have 20,000 shares of preferred stock designated as Series A Preferred Stock, 500,000 shares of preferred stock designated as Series B Preferred Stock, 1,172,000 shares of preferred stock designated as Series C Preferred Stock and 750 shares of preferred stock designated as Series D Convertible Preferred Stock (the “Series D Preferred Stock”). The authorized and unissued shares of common stock and the authorized and undesignated shares of preferred stock are available for issuance without further action by our stockholders, unless such action is required by applicable law or the rules of any stock exchange on which our securities may be listed. Unless approval of our stockholders is so required, our board of directors does not intend to seek stockholder approval for the issuance and sale of our common stock or preferred stock.

The foregoing description is intended as a summary and is qualified in its entirety by reference to our amended and restated certificate of incorporation, the bylaws, and the respective certificates of designations for our Series B Preferred Stock and Series C Preferred Stock.

### **Common Stock**

The holders of our common stock are entitled to one vote per share. Our certificate of incorporation does not provide for cumulative voting. Our directors are divided into three classes. At each annual meeting of stockholders, directors elected to succeed those directors whose terms expire are elected for a term of office to expire at the third succeeding annual meeting of stockholders after their election. The holders of our common stock are entitled to receive ratably such dividends, if any, as may be declared by our board of directors out of legally available funds; however, the current policy of our board of directors is to retain earnings, if any, for operations and growth. Upon liquidation, dissolution or winding-up, the holders of our common stock are entitled to share ratably in all assets that are legally available for distribution. The holders of our common stock have no preemptive, subscription, redemption or conversion rights. The rights, preferences and privileges of holders of our common stock are subject to, and may be adversely affected by, the rights of the holders of any series of preferred stock, which may be designated solely by action of our board of directors and issued in the future.

The transfer agent and registrar for our common stock is Action Stock Transfer Corp. The transfer agent’s address is 2469 E. Fort Union Blvd., Suite 214, Salt Lake City, Utah 84121. Our common stock is listed on the NYSE American under the symbol “NSPR.”

### **Pre-Funded Warrants Being Offered in this Offering**

The following summary of certain terms and provisions of pre-funded warrants that are being offered hereby is not complete and is subject to, and qualified in its entirety by, the provisions of the pre-funded warrant, the form of which is filed as an exhibit to the registration statement of which this prospectus forms a part. Prospective investors should carefully review the terms and provisions of the form of pre-funded warrant for a complete description of the terms and conditions of the pre-funded warrants.

### ***Duration and Exercise Price***

Each pre-funded warrant offered hereby will have an initial exercise price per share equal to \$0.001. The pre-funded warrants will be immediately exercisable and may be exercised at any time until the pre-funded warrants are exercised in full. The exercise price and number of shares of common stock issuable upon exercise is subject to appropriate adjustment in the event of stock dividends, stock splits, reorganizations or similar events affecting our common stock and the exercise price.

### ***Exercisability***

The pre-funded warrants will be exercisable, at the option of each holder, in whole or in part, by delivering to us a duly executed exercise notice accompanied by payment in full for the number of shares of our common stock purchased upon such exercise (except in the case of a cashless exercise as discussed below). A holder (together with its affiliates) may not exercise any portion of the pre-funded warrant to the extent that the holder would own more than 4.99% of the outstanding common stock immediately after exercise, except that upon at least 61 days' prior notice from the holder to us, the holder may increase the amount of ownership of outstanding stock after exercising the holder's pre-funded warrants up to 9.99% of the number of shares of our common stock outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the pre-funded warrants. Purchasers of pre-funded warrants in this offering may also elect prior to the issuance of the pre-funded warrants to have the initial exercise limitation set at 9.99% of our outstanding common stock.

### ***Cashless Exercise***

If, at the time a holder exercises its pre-funded warrants, a registration statement registering the issuance of the shares of common stock underlying the pre-funded warrants under the Securities Act is not then effective or available for the issuance of such shares, then in lieu of making the cash payment otherwise contemplated to be made to us upon such exercise in payment of the aggregate exercise price, the holder may elect instead to receive upon such exercise (either in whole or in part) the net number of shares of common stock determined according to a formula set forth in the pre-funded warrants.

### ***Transferability***

Subject to applicable laws, a pre-funded warrant may be transferred at the option of the holder upon surrender of the pre-funded warrant to us together with the appropriate instruments of transfer.

### ***Fractional Shares***

No fractional shares of common stock will be issued upon the exercise of the pre-funded warrants. Rather, the number of shares of common stock to be issued will, at our election, either be rounded up to the nearest whole number or we will pay a cash adjustment in respect of such final fraction in an amount equal to such fraction multiplied by the exercise price.

### ***Trading Market***

There is no trading market available for the pre-funded warrants on any securities exchange or nationally recognized trading system. We do not intend to list the pre-funded warrants on any securities exchange or nationally recognized trading system. The common stock issuable upon exercise of the pre-funded warrants is currently listed on the NYSE American under the symbol "NSPR."

### ***Right as a Stockholder***

Except as otherwise provided in the pre-funded warrants or by virtue of such holder's ownership of shares of our common stock, the holders of the pre-funded warrants do not have the rights or privileges of holders of our common stock, including any voting rights, until they exercise their pre-funded warrants.

### ***Fundamental Transaction***

In the event of a fundamental transaction, as described in the pre-funded warrants and generally including any reorganization, recapitalization or reclassification of our common stock, the sale, transfer or other disposition of all or substantially all of our properties or assets, our consolidation or merger with or into another person, the acquisition of more than 50% of our outstanding common stock, or any person or group becoming the beneficial owner of 50% of the voting power represented by our outstanding common stock, the holders of the pre-funded warrants will be entitled to receive upon exercise of the pre-funded warrants the kind and amount of securities, cash or other property that the holders would have received had they exercised the pre-funded warrants immediately prior to such fundamental transaction.

## Preferred Stock

The board of directors is authorized, subject to any limitations prescribed by law, without further vote or action by the stockholders, to issue from time to time shares of preferred stock in one or more series. Each such series of preferred stock shall have such number of shares, designations, preferences, voting powers, qualifications, and special or relative rights or privileges as shall be determined by the board of directors, which may include, among others, dividend rights, voting rights, liquidation preferences, conversion rights and preemptive rights. Issuance of preferred stock by our board of directors may result in such shares having dividend and/or liquidation preferences senior to the rights of the holders of our common stock and could dilute the voting rights of the holders of our common stock.

Prior to the issuance of shares of each series of preferred stock, the board of directors is required by the Delaware General Corporation Law and our certificate of incorporation to adopt resolutions and file a certificate of designation with the Secretary of State of the State of Delaware. The certificate of designation fixes for each class or series the designations, powers, preferences, rights, qualifications, limitations and restrictions, including, but not limited to, some or all of the following:

- the number of shares constituting that series and the distinctive designation of that series, which number may be increased or decreased (but not below the number of shares then outstanding) from time to time by action of the board of directors;
- the dividend rate and the manner and frequency of payment of dividends on the shares of that series, whether dividends will be cumulative, and, if so, from which date;
- whether that series will have voting rights, in addition to any voting rights provided by law, and, if so, the terms of such voting rights;
- whether that series will have conversion privileges, and, if so, the terms and conditions of such conversion, including provision for adjustment of the conversion rate in such events as the board of directors may determine;
- whether or not the shares of that series will be redeemable, and, if so, the terms and conditions of such redemption;
- whether that series will have a sinking fund for the redemption or purchase of shares of that series, and, if so, the terms and amount of such sinking fund;
- whether or not the shares of the series will have priority over or be on a parity with or be junior to the shares of any other series or class in any respect;
- the rights of the shares of that series in the event of voluntary or involuntary liquidation, dissolution or winding up of the corporation, and the relative rights or priority, if any, of payment of shares of that series; and
- any other relative rights, preferences and limitations of that series.

Once designated by our board of directors, each series of preferred stock may have specific financial and other terms.

## Series B Convertible Preferred Stock

On July 7, 2016, we issued 442,424 shares of Series B Preferred Stock in a public offering. Our Series B Preferred Stock has a stated value of \$33.00 and was initially convertible into 0.00229 shares of common stock (subject to the beneficial ownership limitations as provided in the related certificate of designation of preferences) reflecting a conversion price equal to \$14,437.50 per share, subject to adjustment as provided in the certificate of designation. In accordance with the anti-dilution price protection contained in the certificate of designation for the Series B Preferred Stock as further described below, we reduced the Series B Preferred Stock conversion price to \$2,800.00 per share of common stock in connection with the underwritten public offering that closed on March 14, 2017, which was further reduced to \$350.00 per share in connection with the private placement of 750 shares of Series D Preferred Stock in December 2017, to \$150.00 per share in connection with the underwritten public offering that closed on March 1, 2018, to \$87.50 per share in connection with the underwritten public offering that closed on April 2, 2018, to \$15.00 per share in connection with the underwritten public offering that closed on July 3, 2018, to \$5.00 per share in connection with the underwritten public offering that closed on April 8, 2019, then to \$1.80 per share in connection with the underwritten public offering that closed on September 24, 2019.

The Series B Preferred Stock is convertible at any time at the option of the holder prior to the fifth anniversary of the date of issuance, at which time all shares of outstanding Series B Preferred Stock shall automatically and without any further action by the holder be converted into shares of our common stock at the then effective conversion price, provided that the holder will be prohibited from converting Series B 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 9.99% of the total number of shares of our common stock then issued and outstanding.

As of May 12, 2020, there were 17,303 shares of Series B Preferred Stock outstanding, convertible into an aggregate of 555,138 shares of our common stock (including the payment of the cumulative dividends accrued on the Series B Preferred Stock in an aggregate of 237,916 shares of our common stock).

The holders of Series B Preferred Stock are 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 Preferred Stock. The dividends become payable, at our option, in either cash, out of any funds legally available for such purpose, or in shares of common stock, (i) upon any conversion of the Series B Preferred Stock, (ii) on each such other date as our board of directors may determine, subject to written consent of the holders of Series B Preferred Stock holding a majority of the then issued and outstanding Series B Preferred Stock, (iii) upon our liquidation, dissolution or winding up, and (iv) upon occurrence of a fundamental transaction, including any merger or consolidation, sale of all or substantially all of our assets, exchange or conversion of all of our common stock by tender offer, exchange offer or reclassification; provided, however, that if Series B Preferred Stock is converted into shares of common stock at any time prior to the fifth anniversary of the date of issuance of the Series B Preferred Stock, the holder will receive a make-whole payment in an amount equal to all of the dividends that, but for the early conversion, would have otherwise accrued on the applicable shares of Series B Preferred Stock being converted for the period commencing on the conversion date and ending on the fifth anniversary of the date of issuance, less the amount of all prior dividends paid on such converted Series B Preferred Stock before the date of conversion. Make-whole payments are payable at our option in either cash, out of any funds legally available for such purpose, or in shares of common stock.

With respect to any dividend payments and make-whole payments paid in shares of common stock, the number of shares of common stock to be issued to a holder of Series B Preferred Stock will be an amount equal to the quotient of (i) the amount of the dividend payable to such holder divided by (ii) the conversion price then in effect.

We are not obligated to redeem or repurchase any shares of Series B Preferred Stock. Shares of Series B Preferred Stock are not otherwise entitled to any redemption rights, or mandatory sinking fund or analogous fund provision.

The Series B 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.

In the event of our liquidation, dissolution, or winding up, holders of our Series B 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 Series B Preferred Stock if such shares had been converted to common stock immediately prior to such event (without giving effect for such purposes to the 9.99% beneficial ownership limitation, as applicable) subject to the preferential rights of holders of any class or series of our capital stock specifically ranking by its terms senior to the Series B Preferred Stock as to distributions of assets upon such event, whether voluntarily or involuntarily.

The holders of the Series B 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 Series B Preferred Stock requires the approval of the holders of a majority of the shares of Series B Preferred Stock then outstanding.

We have not listed, and we do not plan on making an application to list, the Series B Preferred Stock on the NYSE American, any other national securities exchange or any other nationally recognized trading system. The common stock issuable upon conversion of the Series B Preferred Stock is listed on the NYSE American under the symbol "NSPR."

Shares of Series B Preferred Stock were issued in book-entry form under a transfer agency and service agreement between Action Stock Transfer Corp., as transfer agent, and us, and are represented by one or more book-entry certificates deposited with DTC and registered in the name of Cede & Co., a nominee of DTC, or as otherwise directed by DTC.

The transfer agent and registrar for our Series B Preferred Stock is Action Stock Transfer Corp. The transfer agent's address is 2469 E. Fort Union Blvd., Suite 214, Salt Lake City, Utah 84121.

You should review the certificate of designation of the Series B Preferred Stock and subsequent amendments, which have been filed as an exhibit to our Annual Report on Form 10-K, for the year ended December 31, 2019, filed with the Securities and Exchange Commission on March 10, 2020, for a complete description of the terms and conditions of the Series B Preferred Stock.

#### **Potential Common Stock Issuances to the Holders of Our Series B Preferred Stock**

Pursuant to the anti-dilution provisions contained in the certification of designation for our Series B Preferred Stock, in the event that, while any of our Series B Preferred Stock is outstanding, we issue equity or equity-linked securities at an effective common stock purchase price of less than the Series B 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 Preferred Stock conversion price to equal the effective common stock purchase price. This reduction in the Series B Preferred Stock conversion price will result in a greater number of shares of common stock becoming issuable upon conversion of the Series B Preferred Stock for no additional consideration. In accordance with this anti-dilution price protection, if the effective purchase price per share of common stock in this offering is below the current Series B Preferred Stock conversion price of \$1.80 per share of common stock, it will result in additional shares of common stock becoming issuable to the holders of our Series B Preferred Stock upon conversion of the Series B Preferred Stock. As a result of this offering, based on the assumed public offering price of \$ per share of common stock, which is the last reported sale price for our common stock as reported on the NYSE American on , 2020, and shares of Series B Preferred Stock outstanding as of , 2020, the conversion price for the Series B Preferred Stock will be adjusted to \$ , and we would be required to issue additional shares of common stock (including the payment of the cumulative dividends accrued on the Series B Preferred Stock in an aggregate of shares of common stock) to the holders of Series B Preferred Stock upon conversion of their Series B Preferred Stock.

## Series C Convertible Preferred Stock

On March 14, 2017, we issued 1,069,822 shares of Series C Preferred Stock in a public offering. Our Series C Preferred Stock has a stated value of \$6.40, and each share of Series C Preferred Stock was initially convertible into 0.00229 of a share of common stock at an initial conversion price equal to \$2,800 per share of common stock. Series C 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. In accordance with the anti-dilution price protection contained in the certificate of designation for the Series C Preferred Stock as further described below, we reduced the Series C Preferred Stock conversion price to \$150.00 per share in connection with the underwritten public offering that closed on March 1, 2018, to \$87.50 per share in connection with the underwritten public offering that closed on April 2, 2018, to \$15.00 per share in connection with the underwritten public offering that closed on July 3, 2018, to \$5.00 per share in connection with the underwritten public offering that closed on April 8, 2019, then to \$1.80 per share in connection with the underwritten public offering that closed on September 24, 2019.

The Series C Preferred Stock is convertible at any time at any time at the option of the holder, provided that the holder will be prohibited from converting Series C 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 or decrease 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.

As of May 13, 2020, there were 26,558 shares of Series C Preferred Stock outstanding, convertible into an aggregate of 94,428 shares of our common stock.

In the event of our liquidation, dissolution, or winding up, holders of our Series C 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 Series C Preferred Stock if such shares had been converted to common stock immediately prior to such event (without giving effect for such purposes to the 4.99% or 9.99% beneficial ownership limitation, as applicable) subject to the preferential rights of holders of any class or series of our capital stock specifically ranking by its terms senior to the Series C Preferred Stock as to distributions of assets upon such event, whether voluntarily or involuntarily.

Shares of Series C Preferred Stock are not entitled to receive any dividends, unless and until specifically declared by our board of directors. However, holders of our Series C Preferred Stock are entitled to receive dividends on shares of Series C Preferred Stock equal (on an as-if-converted-to-common-stock basis, and without giving effect for such purposes to the 4.99% or 9.99% beneficial ownership limitation, as applicable) 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. We are not obligated to redeem or repurchase any shares of Series C Preferred Stock. Shares of Series C Preferred Stock are not otherwise entitled to any redemption rights, or mandatory sinking fund or analogous fund provision.

The holders of the Series C 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 Series C Preferred Stock requires the approval of the holders of a majority of the shares of Series C Preferred Stock then outstanding.

We have not listed, and we do not plan on making an application to list, the Series C Preferred Stock on the NYSE American, any other national securities exchange or any other nationally recognized trading system. The common stock issuable upon conversion of the Series C Preferred Stock is listed on the NYSE American under the symbol "NSPR."

Shares of Series C Preferred Stock were issued in book-entry form under a transfer agency and service agreement between Action Stock Transfer Corp., as transfer agent, and us, and are represented by one or more book-entry certificates deposited with DTC and registered in the name of Cede & Co., a nominee of DTC, or as otherwise directed by DTC.

The transfer agent and registrar for our Series C Preferred Stock is Action Stock Transfer Corp. The transfer agent's address is 2469 E. Fort Union Blvd., Suite 214, Salt Lake City, Utah 84121.

You should review the certificate of designation of the Series C Preferred Stock, and subsequent amendments, which have been filed as an exhibit to our Annual Report on Form 10-K, for the year ended December 31, 2019, filed with the Securities and Exchange Commission on March 10, 2020, for a complete description of the terms and conditions of the of the Series C Preferred Stock.

### **Potential Common Stock Issuances to the Holders of Our Series C Preferred Stock**

Pursuant to the anti-dilution provisions contained in the certification of designation for our Series C Preferred Stock, in the event that, while any of our Series C Preferred Stock is outstanding, we issue equity or equity-linked securities at an effective common stock purchase price of less than the Series C 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 C Preferred Stock conversion price to equal the effective common stock purchase price. This reduction in the Series C Preferred Stock conversion price will result in a greater number of shares of common stock becoming issuable upon conversion of the Series C Preferred Stock for no additional consideration. In accordance with this anti-dilution price protection, if the effective purchase price per share of common stock in this offering is below the current Series C Preferred Stock conversion price of \$1.80 per share of common stock, it will result in additional shares of common stock becoming issuable to the holders of our Series C Preferred Stock upon conversion of the Series C Preferred Stock. As a result of this offering, based on the assumed public offering price of \$ per share of common stock, which is the last reported sale price for our common stock as reported on the NYSE American on , 2020 and shares of Series C Preferred Stock outstanding as of , 2020, the conversion price for the Series C Preferred Stock will be adjusted to \$ , and we would be required to issue additional shares of common stock to the holders of Series C Preferred Stock upon conversion of their Series C Preferred Stock.

### **Delaware Anti-Takeover Law, Provisions of our Certificate of Incorporation and Bylaws**

#### ***Delaware Anti-Takeover Law***

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:

- 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;
- 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 (i) shares owned by persons who are directors and also officers and (ii) 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
- 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 defines a business combination to include:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, transfer, pledge or other disposition involving the interested stockholder of 10% or more of the assets of the corporation;
- subject to exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder; or
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation.

In general, Section 203 defines an interested stockholder as any entity or person beneficially owning 15% or more of the outstanding voting stock of the corporation and any entity or person affiliated with, or controlling, or controlled by, the entity or person. The term “owner” is broadly defined to include any person that, individually, with or through that person’s affiliates or associates, among other things, beneficially owns the stock, or has the right to acquire the stock, whether or not the right is immediately exercisable, under any agreement or understanding or upon the exercise of warrants or options or otherwise or has the right to vote the stock under any agreement or understanding, or has an agreement or understanding with the beneficial owner of the stock for the purpose of acquiring, holding, voting or disposing of the stock.

The restrictions in Section 203 do not apply to corporations that have elected, in the manner provided in Section 203, not to be subject to Section 203 of the Delaware General Corporation Law or, with certain exceptions, which do not have a class of voting stock that is listed on a national securities exchange or held of record by more than 2,000 stockholders. Our certificate of incorporation and bylaws do not opt out of Section 203.

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.

### ***Certificate of Incorporation and Bylaws***

Provisions of our certificate of incorporation and bylaws may delay or discourage transactions involving an actual or potential change in our control or change in our management, including transactions in which stockholders might otherwise receive a premium for their shares, or transactions that our stockholders might otherwise deem to be in their best interests. Therefore, these provisions could adversely affect the price of our common stock. Among other things, our certificate of incorporation and bylaws:

- permit our board of directors to issue up to 5,000,000 shares of preferred stock, without further action by the stockholders, with any rights, preferences and privileges as they may designate, including the right to approve an acquisition or other change in control;
- provide that the authorized number of directors may be changed only by resolution of the board of directors;
- provide that all vacancies, including newly created directorships, may, except as otherwise required by law, be filled by the affirmative vote of a majority of directors then in office, even if less than a quorum;
- divide our board of directors into three classes, with each class serving staggered three-year terms;
- do not provide for cumulative voting rights (therefore allowing the holders of a majority of the shares of common stock entitled to vote in any election of directors to elect all of the directors standing for election, if they should so choose);
- provide that special meetings of our stockholders may be called only by our board of directors; and
- set forth an advance notice procedure with regard to the nomination, other than by or at the direction of our board of directors, of candidates for election as directors and with regard to business to be brought before a meeting of stockholders.

## UNDERWRITING

We have entered into an underwriting agreement, dated \_\_\_\_\_, 2020, with A.G.P./Alliance Global Partners, acting as the representative of the several underwriters named below, with respect to the shares of common stock and pre-funded warrants. Subject to certain conditions, we have agreed to sell to the underwriters, and the underwriters have severally agreed to purchase, the shares of common stock and pre-funded warrants provided below opposite their respective names.

| Underwriters                    | Number of Shares | Number of Pre-Funded Warrants | Total |
|---------------------------------|------------------|-------------------------------|-------|
| A.G.P./Alliance Global Partners |                  |                               |       |
| <b>Total</b>                    |                  |                               |       |

The underwriters are committed to purchase all the shares of common stock and pre-funded warrants offered by us other than those covered by the option to purchase additional shares and pre-funded warrants described below. The obligations of the underwriters may be terminated upon the occurrence of certain events specified in the underwriting agreement. Furthermore, pursuant to the underwriting agreement, the underwriters' obligations are subject to customary conditions, representations and warranties contained in the underwriting agreement, such as receipt by the underwriters of officers' certificates and legal opinions.

### Discount, Commissions and Expenses

The underwriters have advised us that they propose to offer the shares of common stock and pre-funded warrants at the public offering price set forth on the cover page of this prospectus and to certain dealers at that price less a concession not in excess of \$ \_\_\_\_\_ per share of common stock and pre-funded warrant. The underwriters may allow, and certain dealers may reallow, a discount from the concession not in excess of \$ \_\_\_\_\_ per share of common stock and pre-funded warrant to certain brokers and dealers. After this offering, the public offering price, concession and reallowance to dealers may be changed by the representative. No such change shall change the amount of proceeds to be received by us as set forth on the cover page of this prospectus. The shares of common stock and pre-funded warrants are offered by the underwriters as stated herein, subject to receipt and acceptance by them and subject to their right to reject any order in whole or in part. The underwriters have informed us that they do not intend to confirm sales to any accounts over which they exercise discretionary authority.

The following table shows the underwriting discount payable to the underwriters by us in connection with this offering.

|   | Per Share | Per Pre-Funded Warrant | Total                  |                     |
|---|-----------|------------------------|------------------------|---------------------|
|   |           |                        | Without Over-Allotment | With Over-Allotment |
| Public offering price                       |           |                        |                        |                     |
| Underwriting discounts and commissions (7%) |           |                        |                        |                     |
| Proceeds, before expenses, to us            |           |                        |                        |                     |

We estimate that expenses payable by us in connection with this offering, excluding the underwriting discount referred to above, will be approximately \$170,000. The underwriters have agreed to reimburse issuer expenses incurred in connection with the offering in an amount equal to up to 1.5% of the offering, which may be netted at closing.

The representative have informed us that they do not expect sales to accounts over which the underwriters have discretionary authority to exceed 5% of the shares of common stock and pre-funded warrants being offered.

### **Over-allotment Option**

We have granted to the underwriters an option exercisable not later than 45 days after the date of this prospectus to purchase up to an additional \_\_\_\_\_ shares of common stock at the public offering price per share of common stock set forth on the cover page hereto less the underwriting discounts and commissions. The underwriters may exercise the option solely to cover overallotments, if any, made in connection with this offering. If any additional shares of common stock are purchased pursuant to the over-allotment option, the underwriters will offer these shares of common stock on the same terms as those on which the other securities are being offered.

### **Indemnification**

We have agreed to indemnify the underwriters against certain liabilities, including liabilities under the Securities Act and liabilities arising from breaches of representations and warranties contained in the underwriting agreement, or to contribute to payments that the underwriters may be required to make in respect of those liabilities.

### **Lock-up Agreements**

Our directors and executive officers have entered into lock-up agreements. Under these agreements, these individuals have agreed, subject to specified exceptions, not to sell or transfer any shares of common stock or securities convertible into, or exchangeable or exercisable for, our shares of common stock during a period ending 90 days after the date of this prospectus, without first obtaining the written consent of A.G.P./Alliance Global Partners. Specifically, these individuals have agreed, in part, not to:

- offer, pledge, sell, contract to sell, grant, lend or otherwise transfer or dispose of, directly or indirectly, any shares of common stock or any securities convertible into or exercisable or exchangeable for shares of common stock, whether now owned or hereafter acquired or with respect to which such person has or later acquires the power of disposition, whether any such transaction is to be settled by delivery of our securities, in cash, or otherwise;
- enter into any swap or other arrangement that transfers to another, in whole or in part, any of the economic consequences of ownership of our securities, whether any such transaction is to be settled by delivery of our shares of common stock, in cash or otherwise;
- make any demand for or exercise any right with respect to the registration of any of our securities; or
- publicly disclose the intention to make any offer, sale, pledge or disposition, or to enter into any transaction, swap, hedge or other arrangement relating to any of our securities.

Notwithstanding these limitations, these shares of common stock may be transferred under limited circumstances, including, without limitation, by gift, will or intestate succession.

In addition, we have agreed that, for a period of 90 days from the date of this prospectus, we will not (i) offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, lend, or otherwise transfer or dispose of, directly or indirectly, any of our shares of common stock or any securities convertible into or exercisable or exchangeable for our shares of common stock; (ii) file or caused to be filed any registration statement with the SEC relating to the offering of any of our shares of common stock or any securities convertible into or exercisable or exchangeable for our shares of common stock; (iii) enter into any swap or other arrangement that transfers to another, in whole or in part, any of the economic consequences of ownership of capital stock of the Company, whether any such transaction described in clause (i), (ii) or (iii) is to be settled by delivery of our shares of common stock or such other securities, in cash or otherwise.

### **Stabilization**

In connection with this offering, the underwriters may engage in over-allotment transactions, syndicate-covering transactions, stabilizing transactions, penalty bids and purchases to cover positions created by short sales.

- Stabilizing transactions permit bids to purchase shares, so long as the stabilizing bids do not exceed a specified maximum and are engaged in for the purpose of preventing or retarding a decline in the market price of the shares while the offering is in progress.

- Over-allotment transactions involve sales by the underwriters of shares of common stock in excess of the number of shares the underwriters are obligated to purchase. This creates a syndicate short position, which may be either a covered short position or a naked short position. In a covered short position, the number of shares of common stock over-allotted by the underwriters is not greater than the number of shares of common stock that they may purchase in the over-allotment option. In a naked short position, the number of securities involved is greater than the number of shares in the over-allotment option. The underwriters may close out any short position by exercising their over-allotment option and/or purchasing common stock in the open market.
- Syndicate covering transactions involve purchases of common stock in the open market after the distribution has been completed in order to cover syndicate short positions. In determining the source of common stock to close out the short position, the underwriters will consider, among other things, the price of common stock available for purchase in the open market as compared to the price at which they may purchase common stock through exercise of the over-allotment option. If the underwriters sell more shares of common stock than could be covered by exercise of the over-allotment option, and, therefore, have a naked short position, the position can be closed out only by buying common stock in the open market. A naked short position is more likely to be created if the underwriters are concerned that after pricing there could be downward pressure on the price of the shares in the open market that could adversely affect investors who purchase in the offering.
- Penalty bids permit the underwriters to reclaim a selling concession from a syndicate member when the common stock originally sold by that syndicate member are purchased in stabilizing or syndicate covering transactions to cover syndicate short positions.

These stabilizing transactions, syndicate covering transactions and penalty bids may have the effect of raising or maintaining the market price of our common stock or preventing or retarding a decline in the market price of our common stock. As a result, the price of our common stock in the open market may be higher than it would otherwise be in the absence of these transactions.

Neither we nor the underwriters make any representation or prediction as to the effect that the transactions described above may have on the prices of our securities. These transactions may occur on the NYSE American or on any other trading market. If any of these transactions are commenced, they may be discontinued without notice at any time.

#### **Passive Market Making**

In connection with this offering, the underwriters and any selling group members may engage in passive market making transactions in our common stock on the NYSE American in accordance with Rule 103 of Regulation M under the Exchange Act during a period before the commencement of offers or sales of common shares and extending through the completion of the distribution. A passive market maker must display its bid at a price not in excess of the highest independent bid of that security. However, if all independent bids are lowered below the passive market maker's bid that bid must then be lowered when specified purchase limits are exceeded.

#### **Electronic Distribution**

This prospectus in electronic format may be made available on websites or through other online services maintained by one or more of the underwriters, or by their affiliates. Other than this prospectus in electronic format, the information on any underwriter's website and any information contained in any other website maintained by an underwriter is not part of this prospectus or the registration statement of which this prospectus forms a part, has not been approved and/or endorsed by us or any underwriter in its capacity as underwriter, and should not be relied upon by investors.

#### **Other**

From time to time, certain of the underwriters and/or their affiliates have provided, and may in the future provide, various investment banking and other financial services for us for which services they have received and, may in the future receive, customary fees. In the course of their businesses, the underwriters and their affiliates may actively trade our securities or loans for their own account or for the accounts of customers, and, accordingly, the underwriters and their affiliates may at any time hold long or short positions in such securities or loans.

## Notice to Investors

### Israel

This document does not constitute a prospectus under the Israeli Securities Law, 5728-1968, or the Securities Law, and has not been filed with or approved by the Israel Securities Authority. In the State of Israel, this document is being distributed only to, and is directed only at, and any offer of the securities offered hereby is directed only at, investors listed in the first addendum, or the Addendum, to the Israeli Securities Law, consisting primarily of joint investment in trust funds, provident funds, insurance companies, banks, portfolio managers, investment advisors, members of the Tel Aviv Stock Exchange, underwriters, venture capital funds, entities with equity in excess of NIS 50 million and “qualified individuals”, each as defined in the Addendum (as it may be amended from time to time), collectively referred to as qualified investors (in each case purchasing for their own account or, where permitted under the Addendum, for the accounts of their clients who are investors listed in the Addendum). Qualified investors will be required to submit written confirmation that they fall within the scope of the Addendum, are aware of the meaning of same and agree to it.

### European Economic Area-Belgium, Germany, Luxembourg and Netherlands

The information in this document has been prepared on the basis that all offers of securities will be made pursuant to an exemption under the Directive 2003/71/EC (“Prospectus Directive”), as implemented in Member States of the European Economic Area (each, a “Relevant Member State”), from the requirement to produce a prospectus for offers of securities.

An offer to the public of the securities has not been made, and may not be made, in a Relevant Member State except pursuant to one of the following exemptions under the Prospectus Directive as implemented in that Relevant Member State:

- (a) to legal entities that are authorized or regulated to operate in the financial markets or, if not so authorized or regulated, whose corporate purpose is solely to invest in securities;
- (b) to any legal entity that has two or more of (i) an average of at least 250 employees during its last fiscal year; (ii) a total balance sheet of more than €43,000,000 (as shown on its last annual unconsolidated or consolidated financial statements) and (iii) an annual net turnover of more than €50,000,000 (as shown on its last annual unconsolidated or consolidated financial statements);
- (c) to fewer than 100 natural or legal persons (other than qualified investors within the meaning of Article 2(1)(e) of the Prospectus Directive) subject to obtaining the prior consent of the company or any underwriter for any such offer; or
- (d) in any other circumstances falling within Article 3(2) of the Prospectus Directive, provided that no such offer of securities shall result in a requirement for the publication by the company of a prospectus pursuant to Article 3 of the Prospectus Directive.

### Canada

The securities offered in this prospectus may be sold only to purchasers purchasing, or deemed to be purchasing, as principal that are accredited investors, as defined in National Instrument 45-106 Prospectus Exemptions or subsection 73.3(1) of the *Securities Act (Ontario)*, and are permitted clients, as defined in National Instrument 31-103 *Registration Requirements, Exemptions and Ongoing Registrant Obligations*. Any resale of the securities must be made in accordance with an exemption from, or in a transaction not subject to, the prospectus requirements of applicable securities laws.

Securities legislation in certain provinces or territories of Canada may provide a purchaser with remedies for rescission or damages if this prospectus (including any amendment thereto) contains a misrepresentation, provided that the remedies for rescission or damages are exercised by the purchaser within the time limit prescribed by the securities legislation of the purchaser’s province or territory. The purchaser should refer to any applicable provisions of the securities legislation of the purchaser’s province or territory for particulars of these rights or consult with a legal advisor.

Pursuant to section 3A.3 (or, in the case of securities issued or guaranteed by the government of a non-Canadian jurisdiction, section 3A.4) of National Instrument 33-105 *Underwriting Conflicts* (NI 33-105), the underwriters are not required to comply with the disclosure requirements of NI 33-105 regarding underwriter conflicts of interest in connection with this offering.

## LEGAL MATTERS

The validity of the securities offered by this prospectus will be passed upon for us by \_\_\_\_\_ . Olshan Frome Wolosky LLP, New York, New York, is acting as counsel for the underwriter in connection with the securities offered hereby.

## EXPERTS

The financial statements incorporated in this prospectus by reference to the Annual Report on Form 10-K for the year ended December 31, 2019 have been so incorporated in reliance on the report (which contains an explanatory paragraph relating to the Company’s ability to continue as a going concern as described in Note 1b to the financial statements) of Kesselman & Kesselman, an independent registered public accounting firm and a member firm of PricewaterhouseCoopers International Limited, given on the authority of said firm as experts in auditing and accounting.

## WHERE YOU CAN FIND MORE INFORMATION

We are subject to the informational requirements of the Securities Exchange Act of 1934, as amended, and in accordance therewith we file annual, quarterly, and other reports, proxy statements and other information with the Securities and Exchange Commission. Such reports, proxy statements and other information, including the Registration Statement, and exhibits and schedules thereto, are available to the public through the Securities and Exchange Commission’s website at

<http://www.sec.gov>.

We make available free of charge on or through our website at [www.inspire-md.com](http://www.inspire-md.com), our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended, as soon as reasonably practicable after we electronically file such material with or otherwise furnish it to the Securities and Exchange Commission.

We have filed with the Securities and Exchange Commission a registration statement under the Securities Act of 1933, as amended, relating to the offering of these securities. The registration statement, including the attached exhibits, contains additional relevant information about us and the securities. This prospectus does not contain all of the information set forth in the registration statement. You can obtain a copy of the registration statement for free at [www.sec.gov](http://www.sec.gov). The registration statement and the documents referred to below under “Incorporation of Certain Information By Reference” are also available on our website, [www.inspire-md.com](http://www.inspire-md.com).

We have not incorporated by reference into this prospectus the information on our website, and you should not consider it to be a part of this prospectus.

## INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The Securities and Exchange Commission allows us to “incorporate by reference” the information we have filed with it, which means that we can disclose important information to you by referring you to those documents. The information we incorporate by reference is an important part of this prospectus, and later information that we file with the Securities and Exchange Commission will automatically update and supersede this information.

This prospectus incorporates by reference the documents set forth below that have been previously filed with the Securities and Exchange Commission:

- Our Annual Report on Form 10-K for the fiscal year ended December 31, 2019, filed with the Securities and Exchange Commission on March 10, 2020.
- Our Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2020, filed with the Securities and Exchange Commission on May 11, 2020.
- Our Current Reports on Form 8-K (other than portions thereof furnished under Item 2.02 or Item 7.01 of Form 8-K and exhibits accompanying such reports that relate to such items) filed with the Securities and Exchange Commission on January 6, 2020 (excluding information furnished pursuant to Item 2.02), January 28, 2020, January 30, 2020, and April 27, 2020.

We also incorporate by reference all future documents (excluding information furnished pursuant to Items 2.02 and 7.01 of Form 8-K) we file with the Securities and Exchange Commission pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended, subsequent to the date of this prospectus and prior to the termination of the offering.

You should rely only on the information incorporated by reference or provided in this prospectus. We have not authorized anyone else to provide you with different information. Any statement contained in a document incorporated by reference into this prospectus will be deemed to be modified or superseded for the purposes of this prospectus to the extent that a later statement contained in this prospectus or in any other document incorporated by reference into this prospectus modifies or supersedes the earlier statement. Any statement so modified or superseded will not be deemed, except as so modified or superseded, to constitute a part of this prospectus. You should not assume that the information in this prospectus is accurate as of any date other than the date of this prospectus or the date of the documents incorporated by reference in this prospectus.

We will provide without charge to each person to whom a copy of this prospectus is delivered, upon written or oral request, a copy of any or all of the reports or documents that have been incorporated by reference in this prospectus but not delivered with this prospectus (other than an exhibit to these filings, unless we have specifically incorporated that exhibit by reference in this prospectus). Any such request should be addressed to us at: 4 Menorat Hamaor St., Tel Aviv, Israel 6744832, Attention: Craig Shore, Chief Financial Officer, or made by phone at (888) 776-6804 or by email at [craigs@inspiremd.com](mailto:craigs@inspiremd.com). You may also access the documents incorporated by reference in this prospectus through our website at [www.inspire-md.com](http://www.inspire-md.com). Except for the specific incorporated documents listed above, no information available on or through our website shall be deemed to be incorporated in this prospectus or the registration statement of which it forms a part.

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**Shares of Common Stock**

**Pre-funded Warrants to Purchase Up to      Shares of Common Stock**



, 2020

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**PROSPECTUS**

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**A.G.P.**

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## PART II

### INFORMATION NOT REQUIRED IN PROSPECTUS

#### Item 13. Other Expenses of Issuance and Distribution.

The following table sets forth the estimated costs and expenses payable by the registrant expected to be incurred in connection with the issuance and distribution of the securities being registered hereby (other than placement agent fees). All of such expenses are estimates, except for the Securities and Exchange Commission registration fee, the Financial Industry Regulatory Authority (“FINRA”) filing fee and the listing fee.

|   |         |
|---|---------|
| Securities and Exchange Commission Registration Fee | \$1,493 |
| FINRA Filing Fee                                    | \$*     |
| Accounting Fees and Expenses                        | \$*     |
| Legal Fees and Expenses                             | \$*     |
| Transfer Agent and Registrar Fees and Expenses      | \$*     |
| Printing and Engraving Expenses                     | \$*     |
| Miscellaneous Fees and Expenses                     | \$*     |
| Total   | \$*     |

\* To be completed by an amendment.

#### Item 14. Indemnification of Directors and Officers.

Section 145 of the General Corporation Law of the State of Delaware provides, in general, that a corporation incorporated under the laws of the State of Delaware, as we are, may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding (other than a derivative action by or in the right of the corporation) by reason of the fact that such person is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another enterprise, against expenses (including attorneys’ fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by such person in connection with such action, suit or proceeding if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the corporation and, with respect to any criminal action or proceeding, had no reasonable cause to believe such person’s conduct was unlawful. In the case of a derivative action, a Delaware corporation may indemnify any such person against expenses (including attorneys’ fees) actually and reasonably incurred by such person in connection with the defense or settlement of such action or suit if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the corporation, except that no indemnification will be made in respect of any claim, issue or matter as to which such person will have been adjudged to be liable to the corporation unless and only to the extent that the Court of Chancery of the State of Delaware or any other court in which such action was brought determines such person is fairly and reasonably entitled to indemnity for such expenses.

Our certificate of incorporation and bylaws provide that we will indemnify our directors, officers, employees and agents to the extent and in the manner permitted by the provisions of the General Corporation Law of the State of Delaware, as amended from time to time, subject to any permissible expansion or limitation of such indemnification, as may be set forth in any stockholders’ or directors’ resolution or by contract. Any repeal or modification of these provisions approved by our stockholders will be prospective only and will not adversely affect any limitation on the liability of any of our directors or officers existing as of the time of such repeal or modification.

We are also permitted to apply for insurance on behalf of any director, officer, employee or other agent for liability arising out of his actions, whether or not the General Corporation Law of the State of Delaware would permit indemnification.

We are also permitted to apply for insurance on behalf of any director, officer, employee or other agent for liability arising out of his actions, whether or not the DGCL would permit indemnification.

## Item 15. Recent Sales of Unregistered Securities

On December 1, 2017, we sold 750 shares of the Series D Preferred Stock to an institutional accredited investor (the “Series D Investor”) in the Series D Private Placement pursuant to the securities purchase agreement (the “Series D Purchase Agreement”), dated November 28, 2017, for aggregate gross proceeds of \$750,000. The stated value of each share of Series D Preferred Stock was \$1,000 and the initial conversion price was \$350.00, which was subsequently reduced to \$150.00 per share, to \$87.50 per share, and to \$15.00 per share. All of the shares of Series D Preferred Stock were redeemed by July 3, 2019. Pursuant to the Series D Purchase Agreement and the certificate of designation for the Series D Preferred Stock, the purchasers of Series D Preferred Stock had the option to exchange their Series D Preferred Stock into the securities issued in a subsequent offering (the “Series D Exchange Right”) or in an offering of our common stock or common stock equivalents for gross proceeds of at least \$8 million (a “Qualified Offering”), and the shares of Series C Preferred Stock held by the purchasers of Series D Preferred Stock would be automatically exchanged into the securities we sell in a Qualified Offering (to the extent that stockholder approval for such exchange of Series C Preferred Stock is not required under the Company Guide). The shares of Series D Preferred Stock were not registered under the Securities Act of 1933, as amended, or the securities laws of any state, and were offered and sold to accredited investors (as defined by Rule 501 under the Securities Act of 1933, as amended) in reliance on the exemption from registration under the Securities Act of 1933, as amended, provided by Section 4(a)(2) and Regulation D (Rule 506) under the Securities Act of 1933, as amended.

On February 26, 2018, we and the Series D Investor entered into a waiver agreement (the “Waiver Agreement”) which provided that (i) the Series D Exchange Right would not be applicable to a subsequent financing consisting solely of shares of common stock or units consisting of common stock and common stock purchase warrants publicly registered on Form S-3 for gross proceeds to us of up to \$7,000,000, to be consummated by not later than March 9, 2018 (the “March Offering”), such that no share of Series D Preferred Stock will be exchanged for securities being offered in the March Offering, (ii) we shall reduce the conversion price of the Series D Preferred Stock to the lowest effective price per share at which shares of our common stock (or exercise price, if lower, of any warrants sold in the March Offering) are sold in the March Offering, (iii) instead of using 15% of the proceeds from the March Offering to redeem shares of Series C Preferred Stock held by the Series D Investor, we shall use 15% of the proceeds from the March Offering to redeem a portion of the outstanding shares of Series D Preferred Stock held by the Series D Investor at a per share purchase price equal to the stated value of the Series D Preferred Stock, (iv) in the event that we issue any warrants in the March Offering as part of a unit consisting of common stock and such subsequent financing warrants, then each Series D Purchaser shall receive, solely with respect to its Series D Preferred Stock outstanding immediately prior to the redemption required pursuant to (iii), the same number of subsequent financing warrants as participants in the March Offering as if such Series D Purchaser’s original subscription amount for the Series D Preferred Stock was its subscription amount in the March Offering, and (v) we shall file a registration statement with the Securities and Exchange Commission under the Securities Act of 1933, as amended, in order to register the resale of the shares of common stock issuable upon the conversion of the Series D Preferred Stock and any shares issuable upon exercise of the subsequent financing warrants, if any, issued to the Series D Investor, as soon as practicable following the closing of the March Offering, but in no event later than seven days following such closing and to cause such registration statement to become effective as soon as practical after its filing. The securities issued or issuable to the investor pursuant to the Waiver Agreement were issued in reliance upon the exemption from the registration requirements in Section 4(a)(2) of the Securities Act of 1933, as amended.

On February 27, 2018, we entered into an underwriting agreement (the “March Underwriting Agreement”) with an underwriter (the “Underwriter”), relating to an underwritten public offering of 20,000 shares of our common stock, par value \$0.0001 per share. Pursuant to the March Underwriting Agreement, we, in connection with the offering, agreed to issue to the Underwriter warrants to purchase up to 1,200 shares of common stock, or 6% of the number of shares of common stock sold in the offering. The underwriter warrants are exercisable at any time and from time to time, in whole or in part, following the date of issuance and ending five years from the date of the execution of the March Underwriting Agreement, at a price per share equal to \$187.50 (125% of the offering price to the public per share of common stock). The underwriter warrants were issued and the shares of common stock underlying the underwriter warrants will be issued in reliance upon the exemption from the registration requirements in Section 4(a)(2) of the Securities Act of 1933, as amended.

On March 28, 2018, we entered into the second waiver agreement with the Series D Investor (the “Second Waiver Agreement”), which provided that (i) the Series D Exchange Right would not be applicable to a subsequent financing consisting solely of shares of common stock, which shall be publicly registered on Form S-3 for gross proceeds to us of up to \$5,000,000, to be consummated by not later than April 3, 2018 (the “April 2018 Offering”), such that no share of Series D Preferred Stock would be exchanged for securities being offered in the April Offering (ii) our obligation to use 15% of the proceeds from any subsequent offering of our securities that is not a Qualified Offering to redeem the outstanding shares of the Series C Preferred Stock held by the Series D Investor would not be applicable to the April 2018 Offering, (iii) we shall reduce the conversion price of the Series D Preferred Stock to the public offering price of our common stock sold in the April 2018 Offering, and (iv) we shall use \$300,000 of the proceeds from the April 2018 Offering to redeem outstanding shares of Series C Preferred Stock held by the Series D Investor at a per share purchase price equal to the stated value of the Series C Preferred Stock. The securities issued or issuable to the investor pursuant to the Second Waiver Agreement were issued in reliance upon the exemption from the registration requirements in Section 4(a)(2) of the Securities Act of 1933, as amended.

On March 28, 2018, we entered into an underwriting agreement (the “April 2018 Underwriting Agreement”) with the Underwriter relating to an underwritten public offering of 57,143 shares of our common stock, par value \$0.0001 per share. Pursuant to the April 2018 Underwriting Agreement, we, in connection with the offering, agreed to issue to the Underwriter warrants to purchase up to 3,429 shares of common stock, or 6% of the number of shares of common stock sold in the offering. The underwriter warrants are exercisable at any time and from time to time, in whole or in part, following the date of issuance and ending five years from the date of the execution of the April 2018 Underwriting Agreement, at a price per share equal to \$109.38 (125% of the offering price to the public per share of common stock). The underwriter warrants were issued and the shares of common stock underlying the underwriter warrants will be issued in reliance upon the exemption from the registration requirements in Section 4(a)(2) of the Securities Act of 1933, as amended.

On April 4, 2019, we entered into an underwriting agreement (the “April 2019 Underwriting Agreement”) with the Underwriter, relating to an underwritten public offering of 486,957 shares of our common stock, par value \$0.0001 per share. On April 12, 2019, the Underwriter partially exercised its over-allotment option and purchased an additional 12,393 shares of our common stock. Pursuant to the April 2019 Underwriting Agreement, we, in connection with the offering, issued to the Underwriter warrants to purchase up to 34,955 shares of common stock, or 7% of the number of shares of common stock sold in the offering, including the shares issued pursuant to the over-allotment option. The underwriter warrants are exercisable at any time and from time to time, in whole or in part, following the date of issuance and expire on April 4, 2024, at a price per share equal to \$6.25 (125% of the offering price to the public per share of common stock). The underwriter warrants were issued and the shares of common stock underlying the underwriter warrants will be issued in reliance upon the exemption from the registration requirements in Section 4(a)(2) of the Securities Act of 1933, as amended.

**Item 16. Exhibits and Financial Statement Schedules.**

**(a) Exhibits**

**Index to Exhibits**

| <b>Exhibit No.</b> | <b>Description</b>   |
|--------------------|--|
| 1.1**              | Form of Underwriting Agreement   |
| 3.1                | Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 9, 2015)  |
| 3.2                | Amended and Restated Bylaws (incorporated by reference to Exhibit 3.2 to Current Report on Form 8-K filed with the Securities and Exchange Commission on April 1, 2011)  |
| 3.3                | Certificate of Designation, Preferences and Rights of Series A Preferred Stock (incorporated by reference to Exhibit 3.1 to Current Report on Form 8-K filed with the Securities and Exchange Commission on October 25, 2013)  |
| 3.4                | Certificate of Amendment to Amended and Restated Certificate of Incorporation of InspireMD, Inc. (incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K filed on May 25, 2016)  |
| 3.5                | Certificate of Designation of Preferences, Rights and Limitations of Series B Convertible Preferred Stock (incorporated by reference to Exhibit 3.5 to the Quarterly Report on Form 10-Q filed on August 9, 2016)  |
| 3.6                | Certificate of Amendment to Amended and Restated Certificate of Incorporation of InspireMD, Inc. (incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K filed on September 29, 2016)  |
| 3.7                | Certificate of Designation of Preferences, Rights and Limitations of Series C Convertible Preferred Stock (incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K filed on March 15, 2017)   |
| 3.8                | Certificate of Amendment to Certificate of Designation of Preferences, Rights and Limitation of Series C Convertible Preferred Stock (incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K filed on November 29, 2017)   |
| 3.9                | Certificate of Amendment to Certificate of Designation of Preferences, Rights and Limitation of Series B Convertible Preferred Stock (incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K filed on December 12, 2017)   |
| 3.10               | Certificate of Amendment to Certificate of Designation of Preferences, Rights and Limitation of Series B Convertible Preferred Stock (incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K filed on December 22, 2017)   |
| 3.11               | Certificate of Amendment to Amended and Restated Certificate of Incorporation of InspireMD, Inc. (incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K filed on February 7, 2018)  |
| 3.12               | Certificate of Amendment to Certificate of Designation of Preferences, Rights and Limitation of Series B Convertible Preferred Stock (incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K filed on July 5, 2018)  |
| 3.13               | Certificate of Amendment to Amended and Restated Certificate of Incorporation of InspireMD, Inc. (incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K filed on March 28, 2019)  |
| 4.1                | Form of Common Stock Certificate (incorporated by reference to Exhibit 4.1 to Amendment No. 3 to Registration Statement on Form S-1 filed with the Securities and Exchange Commission on March 5, 2013)  |
| 4.2                | Rights Agreement dated as of October 22, 2013 between InspireMD, Inc. and Action Stock Transfer Corporation, as Rights Agent, including exhibits thereto (incorporated by reference to an exhibit to the Registration Statement on Form 8-A filed with Securities and Exchange Commission on October 25, 2013) |
| 4.3                | Form of Series B Warrant Agent Agreement and Form of Series B Warrant (incorporated by reference to Exhibit 4.3 to Amendment No.3 to Registration Statement on Form S-1 filed with the Securities and Exchange Commission on March 6, 2017)  |

- 4.4\*\* Form of Pre-Funded Warrant for the current offering
- 5.1\*\* Opinion of
- 10.1+ Amended and Restated 2011 Umbrella Option Plan (incorporated by reference to Exhibit 10.1 to Current Report on Form 8-K filed with the Securities and Exchange Commission on November 4, 2011)
- 10.2+ Form of Stock Option Award Agreement (incorporated by reference to Exhibit 10.2 to Current Report on Form 8-K filed with the Securities and Exchange Commission on April 6, 2011)
- 10.3+ Employment Agreement, by and between InspireMD Ltd. and Craig Shore, dated as of November 28, 2010 (incorporated by reference to Exhibit 10.21 to Current Report on Form 8-K filed with the Securities and Exchange Commission on April 6, 2011)
- 10.4+ Form of Indemnity Agreement between InspireMD, Inc. and each of the directors and executive officers thereof (incorporated by reference to Exhibit 10.22 to Amendment No. 1 to Registration Statement on Form S-1 filed with the Securities and Exchange Commission on August 26, 2011)
- 10.5 Agreement by and between InspireMD Ltd. and MeKo Laser Material Processing, dated as of April 15, 2010 (incorporated by reference to Exhibit 10.26 to Amendment No. 1 to Registration Statement on Form S-1 filed with the Securities and Exchange Commission on August 26, 2011)
- 10.6 Agreement by and between InspireMD Ltd. and Natec Medical Ltd, dated as of September 23, 2009 (incorporated by reference to Exhibit 10.27 to Amendment No. 1 to Registration Statement on Form S-1 filed with the Securities and Exchange Commission on August 26, 2011)
- 10.7+ InspireMD, Inc. 2013 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to Current Report on Form 8-K filed with the Securities and Exchange Commission on December 20, 2013)
- 10.8+ Amended and Restated Employment Agreement, dated May 5, 2014, by and between InspireMD, Inc. and Craig Shore (incorporated by reference to Exhibit 10.2 to Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on May 7, 2014)
- 10.9+ First Amendment to the InspireMD, Inc. Amended and Restated 2011 UMBRELLA Option Plan (incorporated by reference to Exhibit 10.3 to Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on May 7, 2014)
- 10.10+ Form of Incentive Stock Option Award Agreement under the InspireMD, Inc. 2013 Long-Term Incentive Plan (incorporated by reference to Exhibit 99.2 to Registration Statement on Form S-8 filed with the Securities and Exchange Commission on June 5, 2014)
- 10.11+ Form of Nonqualified Stock Option Award Agreement under the InspireMD, Inc. 2013 Long-Term Incentive Plan (incorporated by reference to Exhibit 99.3 to Registration Statement on Form S-8 filed with the Securities and Exchange Commission on June 5, 2014)
- 10.12+ Form of Restricted Stock Award Agreement under the InspireMD, Inc. 2013 Long-Term Incentive Plan (incorporated by reference to Exhibit 99.4 to Registration Statement on Form S-8 filed with the Securities and Exchange Commission on June 5, 2014)
- 10.13+ Form of Restricted Stock Unit Award Agreement under the InspireMD, Inc. 2013 Long-Term Incentive Plan (incorporated by reference to Exhibit 99.5 to Registration Statement on Form S-8 filed with the Securities and Exchange Commission on June 5, 2014)

- 10.14+ Form of Section 3(i) Stock Option Award Agreement under the InspireMD, Inc. 2013 Long-Term Incentive Plan (Israeli) (incorporated by reference to Exhibit 99.6 to Registration Statement on Form S-8 filed with the Securities and Exchange Commission on June 5, 2014)
- 10.15+ Form of Section 102 Capital Gain Stock Option Award Agreement under the InspireMD, Inc. 2013 Long-Term Incentive Plan (Israeli) (incorporated by reference to Exhibit 99.7 to Registration Statement on Form S-8 filed with the Securities and Exchange Commission on June 5, 2014)
- 10.16+ Form of Section 102 Capital Gain Restricted Stock Award Agreement under the InspireMD, Inc. 2013 Long-Term Incentive Plan (Israeli) (incorporated by reference to Exhibit 99.8 to Registration Statement on Form S-8 filed with the Securities and Exchange Commission on June 5, 2014)
- 10.17+ Form of Stock Option Award Agreement under the InspireMD, Inc. 2013 Long-Term Incentive Plan (European) (incorporated by reference to Exhibit 99.9 to Registration Statement on Form S-8 filed with the Securities and Exchange Commission on June 5, 2014)
- 10.18+ Form of Restricted Stock Award Agreement under the InspireMD, Inc. 2013 Long-Term Incentive Plan (European) (incorporated by reference to Exhibit 99.10 to Registration Statement on Form S-8 filed with the Securities and Exchange Commission on June 5, 2014)
- 10.19+ Form of Stock Option Award Agreement outside the InspireMD, Inc. 2013 Long-Term Incentive Plan (incorporated by reference to Exhibit 99.11 to Registration Statement on Form S-8 filed with the Securities and Exchange Commission on June 5, 2014)
- 10.20+ First Amendment to Amended and Restated Employment Agreement, dated January 5, 2015, by and between InspireMD, Inc. and Craig Shore (incorporated by reference to Exhibit 10.3 to Current Report on Form 8-K filed with the Securities and Exchange Commission on January 6, 2015)
- 10.21 Form of \$240,625 Warrant (incorporated by reference to Exhibit 10.2 to Current Report on Form 8-K filed with the Securities and Exchange Commission on March 4, 2015)
- 10.22+ First Amendment to the InspireMD, Inc. 2013 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on September 9, 2015)
- 10.23 Form of \$25,812.50 Underwritten Warrant (incorporated by reference to Exhibit 10.2 to Current Report on Form 8-K filed with the Securities and Exchange Commission on March 16, 2016)
- 10.24 Form of \$32,265.63 Underwriter Warrant (incorporated by reference to Exhibit 10.3 to Current Report on Form 8-K filed with the Securities and Exchange Commission on March 16, 2016)
- 10.25 Form of \$25,812.50 Private Placement Warrant (incorporated by reference to Exhibit 10.5 to Current Report on Form 8-K filed with the Securities and Exchange Commission on March 16, 2016)
- 10.26 Form of \$32,265.63 Placement Agent Warrant (incorporated by reference to Exhibit 10.7 to Current Report on Form 8-K filed with the Securities and Exchange Commission on March 16, 2016)
- 10.27+ Second Amendment to the InspireMD, Inc. 2013 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on May 25, 2016)
- 10.28 Warrant Agreement, dated June 13, 2016, by and between InspireMD, Inc. and Hercules Capital, Inc. (incorporated by reference to Exhibit 10.6 to the Current Report on Form 8-K filed on June 14, 2016)
- 10.29 Placement Agent Unit Purchase Option, dated June 7, 2016, issued to Dawson James Securities, Inc. (incorporated by reference to Exhibit 10.12 to the Quarterly Report on Form 10-Q filed on August 9, 2016)

- 10.30 Warrant Agent Agreement and Form of Warrant, dated as of July 7, 2016, between InspireMD, Inc. and Action Stock Transfer Corporation, as Warrant Agent (incorporated by reference to an exhibit to the Registration Statement on Form 8-A filed with Securities and Exchange Commission on July 26, 2016)
- 10.31+ Second Amendment to Amended and Restated Employment Agreement, dated July 25, 2016, by and between InspireMD, Inc. and Craig Shore agent (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on July 29, 2016)
- 10.32+ Third Amendment to the InspireMD, Inc. 2013 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on September 29, 2016)
- 10.33+ Director Offer Letter, between InspireMD, Inc. and Thomas J. Kester, dated September 6, 2016
- 10.34+ First Amendment to Nonqualified Stock Option Agreement dated November 16, 2011, by and between InspireMD, Inc. and Sol Barer, dated as of June 2, 2017 (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on June 2, 2017)
- 10.35+ First Amendment to Nonqualified Stock Option Agreement dated March 31, 2015, by and between InspireMD, Inc. and Sol Barer, dated as of June 2, 2017 (incorporated by reference to Exhibit 10.2 to the Current Report on Form 8-K filed on June 2, 2017)
- 10.36+ First Amendment to Nonqualified Stock Option Agreement dated June 30, 2015, by and between InspireMD, Inc. and Sol Barer, dated as of June 2, 2017 (incorporated by reference to Exhibit 10.3 to the Current Report on Form 8-K filed on June 2, 2017)
- 10.37+ First Amendment to Nonqualified Stock Option Agreement dated September 30, 2015, by and between InspireMD, Inc. and Sol Barer, dated as of June 2, 2017 (incorporated by reference to Exhibit 10.4 to the Current Report on Form 8-K filed on June 2, 2017)
- 10.38+ First Amendment to Nonqualified Stock Option Agreement dated June 30, 2016, by and between InspireMD, Inc. and Sol Barer, dated as of June 2, 2017 (incorporated by reference to Exhibit 10.5 to the Current Report on Form 8-K filed on June 2, 2017)
- 10.39+ First Amendment to Nonqualified Stock Option Agreement dated December 7, 2016, by and between InspireMD, Inc. and Sol Barer, dated as of June 2, 2017 (incorporated by reference to Exhibit 10.6 to the Current Report on Form 8-K filed on June 2, 2017)
- 10.40 Securities Purchase Agreement (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on November 29, 2017)
- 10.41 Amendment to Securities Purchase Agreement, dated February 21, 2018 (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on February 21, 2018)
- 10.42 Waiver Agreement, dated February 26, 2018 (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on February 26, 2018)
- 10.43 Form of Underwriter Warrant, dated March 1, 2018 (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on March 1, 2018)
- 10.44 Waiver Agreement, dated March 28, 2018 (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on March 29, 2018)

- 10.45 Form of Underwriter Warrant, dated April 2, 2018 (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on April 3, 2018)
- 10.46 Letter Agreement, dated June 28, 2018, by and between InspireMD, Inc. and Sabby Healthcare Master Fund, Ltd. (incorporated by reference to Exhibit 10.67 to the Registration Statement on Form S-1, Amendment No. 2, filed with the SEC on June 26, 2018 (File No. 333-225680))
- 10.47 Form of Series D Warrant (incorporated by reference to Exhibit A to Exhibit 4.3 to the Company's Registration Statement on Form S-1, Amendment No. 2, filed with the SEC on June 26, 2018 (File No. 333-225680))
- 10.48 Form of Underwriter Warrant (incorporated by reference to Exhibit 4.5 to the Company's Registration Statement on Form S-1, Amendment No. 2, filed with the SEC on June 26, 2018 (File No. 333-225680))
- 10.49+ Fourth Amendment to the InspireMD, Inc. 2013 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on October 26, 2018)
- 10.50+ Fifth Amendment to the InspireMD, Inc. 2013 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on March 21, 2019)
- 10.51+ Third Amendment to Amended and Restated Employment Agreement, dated March 25, 2019, by and between InspireMD, Inc. and Craig Shore (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on March 28, 2019)
- 10.52 Form of Underwriter Warrant, dated April 8, 2019 and April 12, 2019 (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on April 8, 2019)
- 10.53 Form of Series E Warrant (incorporated by reference to Exhibit 4.3 to the Company's Registration Statement on Form S-1, Amendment No. 1, filed with the SEC on September 13, 2019 (File No. 333-233432))
- 10.54 Form of Underwriter Warrant (incorporated by reference to Exhibit 4.5 to the Company's Registration Statement on Form S-1, Amendment No. 1, filed with the SEC on September 13, 2019 (File No. 333-233432))
- 10.55 General Release and Severance Agreement, dated December 9, 2019, by and between the Company and James J. Barry, Ph.D. (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on December 10, 2019)
- 10.56 First Amendment to General Release and Severance Agreement, dated December 31, 2019, by and between the Company and James J. Barry, Ph.D. (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed on January 6, 2020)
- 10.57 First Amendment to Employment Agreement, dated December 31, 2019, by and between the Company and Marvin Slosman (incorporated by reference to Exhibit 10.2 to the Current Report on Form 8-K filed on January 6, 2020)
- 10.58 Nonqualified Stock Option Agreement, by and between the Company and Marvin Slosman (incorporated by reference to Exhibit 10.60 to the Annual Report on Form 10-K filed on March 9, 2020)
- 10.59 Restricted Stock Unit Award agreement, by and between the Company and Marvin Slosman (incorporated by reference to Exhibit 10.61 to the Annual Report on Form 10-K filed on March 9, 2020)
- 21.1 List of Subsidiaries (incorporated by reference to Exhibit 21.1 to Current Report on Form 8-K filed with the Securities and Exchange Commission on April 6, 2011)
- 23.1\* [Consent of Kesselman & Kesselman, Independent Registered Public Accounting Firm](#)
- 23.2\*\* Consent of (included in Exhibit 5.1)
- 24.1 [Power of Attorney \(included in the signature page\)](#)

\* Filed herewith.

\*\* To be filed by amendment

+ Management contract or compensatory plan or arrangement.

**(b) Financial Statement Schedules**

No financial statement schedules are provided because the information is not required or is shown either in the financial statements or the notes thereto.

**Item 17. Undertakings.**

a. The undersigned registrant hereby undertakes:

1. To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

- i. To include any prospectus required by section 10(a)(3) of the Securities Act of 1933;
- ii. To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and
- iii. To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

*provided, however*, that paragraphs (a)(1)(i), (ii), and (iii) of this section do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the registrant pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)) that are incorporated by reference in the registration statement, or, as to a registration statement.

2. That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

3. To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

4. That, for the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities: The undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

- i. Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;
- ii. Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
- iii. The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
- iv. Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

b. The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to section 13(a) or section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

c. Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act of 1933 and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

d. The undersigned registrant hereby undertakes that:

1. For purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.

2. For the purpose of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus shall be

deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized in the City of Tel Aviv, Israel, on May 13, 2020.

INSPIREMD, INC.

By: /s/ Marvin Slosman  
Name: Marvin Slosman  
Title: Chief Executive Officer

KNOW ALL MEN BY THESE PRESENTS, that the undersigned officers and directors of InspireMD, Inc., a Delaware corporation, that is filing a registration statement on Form S-1 with the Securities and Exchange Commission under the provisions of the Securities Act of 1933, as amended, hereby constitute and appoint Marvin Slosman and Craig Shore their true and lawful attorneys-in-fact and agents, with full power of substitution and re-substitution, for him and in his name, place and stead, in any and all capacities, to sign any or all amendments (including post-effective amendments, exhibits thereto and other documents in connection therewith) to the registration statement, any subsequent registration statement filed by the registrant pursuant to Rule 462(b) of the Securities Act of 1933, as amended, which relates to this registration statement, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all interests and purposes as they might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or either of them, or their substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

In accordance with the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

| <u>Signature</u>  | <u>Title</u>   | <u>Date</u>  |
|---|--|--------------|
| <u>/s/ Marvin Slosman</u><br>Marvin Slosman               | Chief Executive Officer and Director<br>(principal executive officer)  | May 13, 2020 |
| <u>/s/ Craig Shore</u><br>Craig Shore                     | Chief Financial Officer, Chief Administrative Officer, Secretary and Treasurer<br>(principal financial and accounting officer) | May 13, 2020 |
| <u>/s/ Paul Stuka</u><br>Paul Stuka                       | Chairman of the Board of Directors   | May 13, 2020 |
| <u>/s/ Michael Berman</u><br>Michael Berman               | Director   | May 13, 2020 |
| <u>/s/ Thomas J. Kester</u><br>Thomas J. Kester           | Director   | May 13, 2020 |
| <u>/s/ Campbell Rogers, M.D.</u><br>Campbell Rogers, M.D. | Director   | May 13, 2020 |



**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We hereby consent to the incorporation by reference in this Registration Statement on Form S-1 of InspireMD Inc. of our report dated March 9, 2020 relating to the financial statements, which appears in InspireMD Inc.'s Annual Report on Form 10-K for the year ended December 31, 2019. We also consent to the reference to us under the heading "Experts" in such Registration Statement.

Tel-Aviv, Israel  
May 13, 2020

*/s/ Kesselman & Kesselman*

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Certified Public Accountants (Isr.)

A member firm of PricewaterhouseCoopers International Limited

*Kesselman & Kesselman, Trade Tower, 25 Hamered Street, Tel-Aviv 68125, Israel, P.O Box 452 Tel-Aviv 61003 Telephone: +972 -3- 7954555, Fax: +972 -3- 7954556, www.pwc.co.il*

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