

(To Prospectuses dated October 7, 2016 and November 28, 2017)



Viveve Medical, Inc.

13,333,334 Shares

Common Stock

\$1.50 per share

We are selling 13,333,334 shares of our common stock in this offering.

Our common stock is quoted on The Nasdaq Capital Market under the ticker symbol "VIVE." On December 6, 2018, the last reported sale price of our common stock on The Nasdaq Capital Market was \$1.86 per share.

Investing in our common stock involves a high degree of risk. Please read the section entitled **Risk Factors** beginning on page S-9 of this prospectus supplement and in the related sections noted in the accompanying prospectuses, and in the documents incorporated by reference herein and therein.

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

| | <i>Per Share</i> | <i>Total</i> |
|---|------------------|---------------|
| Public Offering Price | \$ 1.50 | \$ 20,000,001 |
| Underwriting Discounts and Commissions(1) | \$ 0.09 | \$ 1,200,000 |
| Proceeds to Viveve (before expenses) | \$ 1.41 | \$ 18,800,001 |

(1) See the section entitled "Underwriting" beginning on page S-19 for a description of the compensation payable to the underwriters.

We have granted the underwriters an option to purchase up to an additional 1,999,999 shares of our common stock from us, at a price of \$1.50 per share, for 30 days after the date of this prospectus supplement.

Delivery of the shares of common stock is expected to be made on or about December 11, 2018.

Sole Book-Runner

Cowen

Lead Manager

Raymond James

Co-Manager

Mizuho Securities

December 6, 2018

We are responsible for the information contained in, or incorporated by reference into, this prospectus supplement and the accompanying prospectuses and in any free-writing prospectus that we prepare or authorize. We have not authorized anyone to provide you with different information, and we take no responsibility for any other information others may give you. We are not, and the underwriters are not, making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted. You should not assume that the information contained in, or incorporated by reference into, this prospectus supplement or the accompanying prospectuses is accurate as of any date other than its date.

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Neither we nor the underwriters have authorized anyone to provide any information or make any representations other than those contained or incorporated by reference in this prospectus supplement, the accompanying prospectuses or any free writing prospectus that we have authorized for use in connection with this offering. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. This prospectus supplement and the accompanying prospectuses are an offer to sell only the shares offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so. The information contained in this prospectus supplement, the accompanying prospectuses and any free writing prospectus that we have authorized for use in connection with this offering is current only as of their respective dates. Our business, financial condition, results of operations and prospects may have changed since those dates. You should read this prospectus supplement, the accompanying prospectuses, the documents incorporated by reference in this prospectus supplement and the accompanying prospectuses and any free writing prospectus that we have authorized for use in connection with this offering when making your investment decision. You should also read and consider the information in the documents to which we have referred you in the section of this prospectus supplement entitled "Incorporation of Certain Information by Reference."

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

ABOUT THIS PROSPECTUS SUPPLEMENT

On September 16, 2016, we filed a registration statement on Form S-3 (File No. 333-213682) that was declared effective by the Securities and Exchange Commission (“SEC”) on October 7, 2016 (the “2016 Registration Statement”). The 2016 Registration Statement contained a prospectus dated October 7, 2016. On November 8, 2017, we filed another registration statement on Form S-3 (File No. 333-221432) that was declared effective by the SEC on November 28, 2017 (the “2017 Registration Statement”). The 2017 Registration Statement contained a prospectus dated November 28, 2017. The 2016 Registration Statement and the 2017 Registration Statement allow us to offer securities using a “shelf” registration process, and the prospectuses dated October 7, 2016 and November 28, 2017 are collectively referred to herein as the “accompanying prospectuses.”

This prospectus supplement provides you with specific information about this offering and the accompanying prospectuses provide you with more general information, some of which may not apply to this offering.

This prospectus supplement and the prospectus dated October 7, 2016 collectively form part of the 2016 Registration Statement and this prospectus supplement and the prospectus dated November 28, 2017 collectively form part of the 2017 Registration Statement.

We also consider this document to consist of two parts: (i) this prospectus supplement and (ii) the accompanying prospectuses. Generally, when we refer only to the “prospectus,” we are referring to both parts combined. This prospectus supplement may add, update or change information contained in the accompanying prospectuses. To the extent that any statement we make in this prospectus supplement is inconsistent with statements made in either of the accompanying prospectuses or any documents incorporated by reference herein or therein, the statements made in this prospectus supplement will be deemed to modify or supersede those made in the accompanying prospectuses and such documents incorporated by reference herein and therein.

In this prospectus supplement, unless the context otherwise requires, references to “Viveve,” “the Company,” “we,” “us” and “our” refer to Viveve Medical, Inc. and its wholly-owned subsidiary, Viveve, Inc.

All references in this prospectus supplement to our consolidated financial statements include, unless the context indicates otherwise, the related notes thereto.

The industry and market data and other statistical information contained in the documents we incorporate by reference are based on management’s own estimates, independent publications, government publications, reports by market research firms or other published independent sources and, in each case, are believed by management to be reasonable estimates. Although we believe these sources are reliable, we have not independently verified the information.

DISCLOSURE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus supplement and the accompanying prospectuses, including the documents that we incorporate by reference herein and therein, may contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act").

Forward-looking statements in this prospectus supplement and the accompanying prospectuses reflect our current expectations or forecasts of future events. You can identify these statements by the fact that they do not relate strictly to historical or current facts. You can find many (but not all) of these statements by looking for words such as "approximates," "believes," "hopes," "expects," "anticipates," "estimates," "projects," "intends," "plans," "would," "should," "could," "may" or other similar expressions in this prospectus supplement, the accompanying prospectuses and the documents incorporated by reference herein and therein. In particular, forward-looking statements include statements relating to future actions, prospective products, applications, customers and technologies and future performance or future financial results. These forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ materially from our historical experience and our present expectations or projections. Factors that could cause actual results to differ from those discussed in the forward-looking statements include, but are not limited to:

- our limited cash and our history of losses;
- our ability to achieve profitability;
- our limited operating history;
- emerging competition and rapidly advancing technology;
- whether we are successful in having our medical device approved or cleared for sale by the U.S. Food and Drug Administration (the "FDA") for all indications sought;
- whether demand develops for our medical device;
- the impact of competitive or alternative products, technologies and pricing;
- the adequacy of protection afforded to us by the patents that we own and the cost to us of maintaining, enforcing and defending those patents;
- our ability to obtain, expand and maintain patent protection in the future, and to protect our non-patented intellectual property;
- our exposure to, and ability to defend against, third-party claims and challenges to our patents and other intellectual property rights;
- our ability to obtain adequate financing in the future, as and when we need it;
- our ability to use the proceeds from this offering as discussed in the section entitled "Use of Proceeds;"
- our ability to successfully execute a new sales and marketing strategy in the United States commencing in the first quarter of 2019;
- our ability to continue as a going concern;
- our success at managing the risks involved in the foregoing items; and
- other factors discussed in this prospectus supplement and the accompanying prospectuses and the documents incorporated by reference herein and therein.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. The forward-looking statements are based upon management's beliefs and assumptions and are made as of the date of this prospectus supplement. We undertake no obligation to publicly update or revise any forward-looking statements included in this prospectus supplement to conform such statements to actual results or changes in our expectations. You should not place undue reliance on these forward-looking statements.

PROSPECTUS SUPPLEMENT SUMMARY

The following summary of our business highlights some of the information contained elsewhere in, or incorporated by reference into, this prospectus supplement. Because this is only a summary, however, it does not contain all of the information that may be important to you. You should carefully read this prospectus supplement and the accompanying prospectuses, including the documents incorporated by reference, which are described under "Incorporation of Certain Information by Reference" in this prospectus supplement. You should also carefully consider the matters discussed in the section of this prospectus supplement entitled "Risk Factors" and under similar sections of the accompanying prospectuses and other periodic reports incorporated herein and therein by reference.

Our Company

Viveve designs, develops, manufactures and markets a platform medical technology, which we refer to as Cryogen-cooled Monopolar RadioFrequency ("CMRF"). Our proprietary CMRF technology is delivered through three main components: a radiofrequency generator housed in a table-top console, a reusable handpiece and a single-use treatment tip that, collectively, constitute the Viveve System. Depending on the relevant country specific clearance or approval, the Viveve System is currently being marketed internationally outside of the United States for the non-invasive treatment of various post-partum conditions including for the treatment of vaginal laxity, for improved sexual function and for vaginal rejuvenation.

At this time, in the United States, the FDA has cleared the Viveve System for use in general surgical procedures for electrocoagulation and hemostasis, but the device has not been cleared or approved for the treatment of vaginal laxity, for improved sexual function or for vaginal rejuvenation. Accordingly, the Company is prohibited under current U.S. regulations from promoting the Viveve System to physicians or consumers for these unapproved uses.

The Viveve System also consists of single-use accessories (e.g. RF return pad, coupling fluid etc.), a cryogen canister that can be used for approximately four to five procedures and a foot pedal. Practitioners attach the single-use treatment tip to the handpiece which is attached to the console. The generator then authenticates the treatment tip and programs the system for the desired treatment without further physician intervention. The treatment is performed in a physician's office and does not require the use of anesthesia. The tissue remodeling effect resulting from the treatment has been demonstrated by our pre-clinical and clinical research.

We believe the Viveve System provides a number of benefits for physicians and patients, including:

- a safe, minimally-invasive, non-ablative treatment;
- it typically requires only a single treatment;
- compelling physician economics; and
- ease of use.

Currently, the Viveve System is cleared for marketing in 62 countries throughout the world, under the following indications for use:

| Indication for Use: | No. of Countries: |
|---|---------------------------|
| General surgical procedures for electrocoagulation and hemostasis | 4 (including the U.S.) |
| General surgical procedures for electrocoagulation and hemostasis and for the treatment of vaginal laxity | 34 |
| For treatment of vaginal laxity | 5 |
| For treatment of vaginal laxity, after vaginal childbirth, to improve sexual function | 17 |
| For vaginal rejuvenation | 1 |
| For treatment of vaginal laxity, urinary incontinence and sexual function | 1 |

Further, our current global commercial footprint for the Viveve System spans 60 countries, which consists of two countries in North America, 17 countries in Europe, 15 countries in Latin America, 14 countries in the Asia Pacific region and 12 countries in the Middle East.

Vaginal laxity and tissue architecture have often been overlooked as contributing etiological factors to female sexual dysfunction. Vaginal laxity can lead to diminished physical sensation during intercourse. This reduction in sensation is often coupled with a reduction in sexual satisfaction, all of which can also impact a woman's sense of sexual self-esteem and her relationship with her sexual partner. Currently, few clinically proven medical treatments are available to treat vaginal laxity. Based on our research and data analyses conducted in 2017, we believe that vaginal laxity affects between 12 to 14 million women worldwide, representing a near-term, estimated global consumable market of \$6 to \$8 billion.

On January 31, 2018, we announced the expansion of our CMRF technology platform to address the mild-to-moderate stress urinary incontinence ("SUI") market. Based on our research and data analyses conducted in 2017, we believe that SUI affects an estimated 25 to 30 million women worldwide, representing a near-term, estimated global market of \$10 to \$12 billion. SUI is a major challenge for women, particularly those who have experienced vaginal childbirth. We believe that upwards of 55% of all women with a previous vaginal delivery may exhibit mild-to-moderate symptoms of SUI. Women often use an external pad to absorb urine leakage associated with SUI that occurs under normal activities such as coughing or laughing, which we believe is often an unsatisfactory, inconvenient and embarrassing outcome that negatively impacts a woman's quality of life. Currently, treatment options for mild-to-moderate SUI are very limited.

In the United States, the Viveve System is cleared by the FDA for use in general surgical procedures for electrocoagulation and hemostasis and we market and sell through a direct sales force and through commercial partnerships in the United States. Outside the United States, we market and sell primarily through distribution partners. We have distribution partners covering 58 countries and a direct salesforce in Canada in addition to the United States.

As of September 30, 2018, we have sold an aggregate of 646 Viveve Systems, consisting of 323 systems sold in North America (comprised of the United States and Canada) and 323 systems sold internationally outside of North America, and approximately 28,700 single-use treatment tips worldwide.

Our goal is to become the leading provider of non-invasive solutions to treat certain women's intimate health conditions by:

- *Expanding the conditions we treat by conducting robust clinical trials and regulatory label expansion* In addition to pursuing clearance or approval in the United States for the improvement of sexual function, we are in the process of conducting several clinical trials and, if successful, we intend to submit applications for regulatory clearance or approval in the United States and internationally for mild-to-moderate SUI and, potentially, vulvovaginal atrophy;
- *Increasing the Number of Viveve Systems.* In our existing markets, we plan to (i) increase the number of Viveve Systems by leveraging our current and future clinical trials and through innovative marketing programs directed at both physicians and patients, where permissible by law, and (ii) expand our efforts and obtain regulatory approvals in additional markets, although there are no assurances that we will ever receive such approvals;
- *Driving Increased Treatment Tip Usage.* We work collaboratively with our physician customer base to increase treatment tip usage by enhancing customer awareness and facilitating the marketing efforts of our physician customers to their patients, where permitted by law. We intend to launch innovative marketing programs with physician customers. In addition, we plan to incorporate practice development managers into our sales organization to support our physician customers;
- *Broadening Our Physician Customer Base in the United States* While our initial focus has been on marketing and selling our Viveve System to a variety of physician specialties, we intend to extend our marketing and our sales efforts in the near future to certain specialists, including gynecologists, urogynecologists and urologists;
- *Developing New Treatment Tips and System Enhancements.* We intend to continue to expand our line of treatment tips to allow for even shorter procedure times to benefit both physicians and patients. We also plan to

pursue potential system modifications and next generation enhancements that will further increase the ease-of-use of the Viveve System; and

- *Investing in Intellectual Property and Patent Protection* We will continue to defend and invest in expanding our intellectual property portfolio, and we intend to file for additional patents to strengthen our intellectual property rights.

During the fourth quarter of 2018, we expect to:

- Announce 12-month data for the SUI feasibility study;
- Obtain FDA clearance to continue VIVEVE II (FSFI) study enrollment; and
- Complete LIBERATE-INT (SUI) study enrollment.

During 2019, we expect to:

- Complete VIVEVE II study enrollment by June 30, 2019;
- Announce the final 6-month data for the LIBERATE-INT (SUI) study by June 30, 2019;
- Obtain Investigational Device Exemption application ("IDE") approval from the FDA for LIBERATE US (SUI) study and initiate the clinical trial by September 30, 2019; and
- Complete enrollment in the LIBERATE-US (SUI) study by December 31, 2019.

Recent Developments

LIBERATE-US Trial Update

On September 17, 2018, we submitted our IDE to the FDA to conduct the LIBERATE-US SUI trial. On October 17, 2018, we received the first response letter from the FDA which requested additional safety data and provided us with certain study design considerations and suggestions. On October 30, 2018, we resubmitted our IDE to the FDA to address the items included in the FDA's first response letter and also included final study reports from various preclinical safety studies we had conducted.

On November 30, 2018, we received a second response letter from the FDA which requested additional preclinical safety testing and provided us with further additional study design considerations. We intend to address the second letter by submitting a pre-submission meeting request to the FDA by December 31, 2018 which will propose an in vivo animal study to demonstrate the safety of our SUI protocol. Following our pre-submission meeting and receipt of feedback from the FDA, we expect to be able to complete our in vivo animal safety testing in the third quarter of 2019 and, if the results of this testing are positive, we intend to resubmit our IDE immediately thereafter. If acceptable to the FDA, we expect to begin our LIBERATE-US trial by September 30, 2019.

Feasibility Study Results (SUI)

Our single-arm SUI feasibility study included 35 subjects at baseline with mild-to-moderate to moderate SUI (based on the one-hour pad weight test) who underwent treatment with Viveve's CMRF technology under a treatment protocol. Twenty-five subjects successfully completed the twelve-month study. Our twelve-month data show:

- 72% of patients treated experienced an improvement from baseline in the 1-hour Pad Weight Test at 12 months;
- A greater than 50% reduction in the 1-hour Pad Weight Test was achieved by 52% of patients at 12 months; 60% of patients experienced significant benefit as they had \leq one gram of urine leakage in the 1-hour Pad Weight Test at 12 months;
- A clinically meaningful benefit was achieved across all patient-reported outcome measures (SUI symptoms and quality of life) at 12 months (n=25) and;
- No device-related safety issues were reported for any of the patients.

This study was conducted by Dr. Bruce Allan who is the medical director of the Allan Centre in Alberta, Canada.

Amended Term Loan with CRG

On November 29, 2018, we entered into Amendment No. 2 ("Amendment No. 2") to the Term Loan Agreement, which was initially entered into on May 22, 2017 and subsequently amended and modified (the "Loan Agreement"), among us, CRG Servicing LLC, as administrative agent and collateral agent, the lenders from time to time party thereto and certain other parties. Amendment No. 2, among other things, amends our minimum revenue covenant for sales of the Viveve System under the Loan Agreement for fiscal year 2018 from at least \$20,000,000 to at least \$17,000,000.

New Sales and Marketing Strategy in the United States

Currently, our sales and marketing organization is structured so that we would rely on a direct sales force to sell the Viveve System in the United States. Beginning in the first quarter of 2019, we anticipate reorganizing our U.S. sales and marketing organization such that we now expect to utilize (i) our existing partnership with Aesthetic Management Partners (AMP), which is a network of independent partnership sales representatives, and regional distribution partners for the sales and marketing of our products to aesthetic practices, and (ii) a direct sales force for sales and marketing to other medical practitioners, including specialists such as gynecologists, urologists and urogynecologists. We plan to continue to incorporate practice development managers into our sales organization to support such medical practitioners. We believe our reorganization will help reduce our operating expenses through 2019 and 2020 while allowing us to focus on our market development efforts. We do not currently anticipate making any changes to our international distribution network. The reorganization may not have the desired effect of reducing our operating expenses and may result in a disruption to our business, adversely affect our sales and marketing organization and make it more difficult to retain qualified personnel.

Corporate Information

The address of our corporate headquarters is 345 Inverness Drive South, Building B, Suite 250, Englewood, Colorado 80112, and our telephone number is (720) 696-8100. Our website can be accessed at www.viveve.com. The information contained on, or that may be obtained from, our website is not a part of this prospectus supplement or the accompanying prospectuses.

“Viveve,” “Geneveve” and our logo are our trademarks. All other service marks, trademarks and trade names appearing in this prospectus supplement and the accompanying prospectuses are the property of their respective owners. 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, these other companies.

Our Reverse Merger

In 2014, we completed a reverse merger and changed our name from PLC Systems Inc. to Viveve Medical, Inc. to better reflect our new business. We compete in the women’s health industry by marketing the Viveve System around the world (outside of the United States) as a way to improve the overall sexual well-being and quality of life of women experiencing vaginal laxity, depending on the relevant country-specific clearance or approval. In the United States, the FDA has cleared the Viveve System for use in general surgical procedures for electrocoagulation and hemostasis, but the device has not been cleared or approved for use for the treatment of vaginal laxity, for improved sexual function or for vaginal rejuvenation.

| | |
|--|--|
| Issuer | Viveve Medical, Inc. |
| Common Stock Offered by Us | 13,333,334 shares |
| Common Stock To Be Outstanding After This Offering | 44,856,788 shares (or 46,856,787 shares, if the underwriters exercise their option in full to purchase additional shares) |
| Underwriters' Option To Purchase Additional Shares | 1,999,999 shares |
| Use of Proceeds | We intend to use the net proceeds from this offering to support the continued commercialization of our products in North America and internationally; to obtain additional regulatory clearances and to conduct the VIVEVE II Sexual Function and LIBERATE – International and LIBERATE – U.S. SUI clinical trials; and for general corporate and working capital purposes. See “Use of Proceeds.” |
| Risk Factors | Your investment involves a high degree of risk. See the information contained in or incorporated by reference under “Risk Factors” beginning on page S-9 of this prospectus supplement, and in the related sections of the accompanying prospectuses and in the documents incorporated by reference herein and therein. |
| Ticker Symbol on The Nasdaq Capital Market | VIVE |

The number of shares of common stock shown above to be outstanding immediately after this offering is based on 31,523,454 shares outstanding as of September 30, 2018, and excludes as of that date:

- 4,298,565 shares of common stock issuable upon the exercise of stock options outstanding as of September 30, 2018, at a weighted-average exercise price of \$4.64 per share;
- 642,622 shares of common stock issuable upon the exercise of warrants to purchase common stock outstanding as of September 30, 2018;
- 378,615 shares of common stock reserved for future issuance under the Viveve Medical, Inc. Amended and Restated 2013 Stock Option and Incentive Plan as of September 30, 2018;
- 307,046 shares of common stock that are available for future issuance under the Viveve Medical, Inc. 2017 Employee Stock Purchase Plan as of September 30, 2018; and
- issuances of additional shares of common stock subsequent to September 30, 2018.

If the underwriters' option to purchase additional shares is exercised in full, we will issue and sell an additional 1,999,999 shares of our common stock and will have 46,856,787 shares outstanding after the offering.

Except as otherwise noted, all information in this prospectus supplement assumes no exercise of the underwriters' option to purchase additional shares.

RISK FACTORS

Your investment in our common stock involves a high degree of risk. Before deciding whether to invest in our common stock, you should carefully consider the risks discussed under the section captioned "Risk Factors" contained in our Annual Report on Form 10-K for the year ended December 31, 2017 and our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2018, June 30, 2018 and September 30, 2018, which are incorporated by reference in this prospectus supplement and the accompanying prospectuses in their entirety, together with other information in this prospectus supplement, the accompanying prospectuses, the information and documents incorporated by reference herein and therein, and in any free writing prospectus that we have authorized for use in connection with this offering. If any of these risks actually occurs, our business, financial condition, results of operations or cash flow could be seriously harmed. This could cause the trading price of our common stock to decline, resulting in a loss of all or part of your investment.

Risks Related to this Offering

We have broad discretion in the use of the net proceeds from this offering and our existing cash and cash equivalents and may not use such proceeds and our existing cash and cash equivalents effectively.

Our management will have broad discretion in the application of the net proceeds from this offering, including for any of the purposes described in the section entitled "Use of Proceeds," as well as our existing cash and cash equivalents, and you will be relying on the judgment of our management regarding such application. You will not have the opportunity, as part of your investment decision, to assess whether the proceeds are being used appropriately. Our management might not apply the net proceeds or our existing cash in ways that ultimately increase the value of your investment. If we do not invest or apply the net proceeds from this offering or our existing cash and cash equivalents in ways that enhance stockholder value, we may fail to achieve expected results, which could cause our stock price to decline. Pending their use, we may invest the net proceeds from this offering in investment-grade, interest-bearing securities, U.S. government securities or other securities. These investments may not yield a favorable return to our stockholders.

You may experience immediate and substantial dilution.

The offering price per share in this offering may exceed the net tangible book value per share of our common stock outstanding prior to this offering. After giving effect to the sale by us of 13,333,334 shares of our common stock in this offering, at an offering price of \$1.50 per share and after deducting the underwriters' discounts and commissions and estimated offering expenses payable by us, you will experience immediate dilution of \$1.15 per share based on the difference between our as adjusted net tangible book value per share as of September 30, 2018 and the offering price. The exercise of outstanding stock options and warrants may result in further dilution of your investment. See the section titled "Dilution" below for a more detailed illustration of the dilution you may incur if you participate in this offering.

You may experience future dilution as a result of future equity offerings.

In order to raise additional capital, we may in the future offer additional shares of our common stock or other securities convertible into or exchangeable for our common stock at prices that may not be the same as the price per share in this offering. We may sell shares or other securities in any other offering at a price per share that is less 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. The price per share at which we sell additional shares of our common stock, or securities convertible or exchangeable into common stock, in future transactions may be higher or lower than the price per share paid by investors in this offering.

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

Sales of a substantial number of shares of our common stock in the public market or the perception that these sales might occur could depress the market price of our common stock and could impair our ability to raise capital through the sale of additional equity securities. We are unable to predict the effect that sales may have on the prevailing market price of our common stock. In addition, the sale of substantial amounts of our common stock could adversely impact the price of our common stock. As of September 30, 2018, 31,523,454 shares of our common stock and options to purchase 4,298,565 shares of our common stock were outstanding. The sale, or the availability for sale, of a large number of shares of our common stock in the public market could cause the price of our common stock to decline.

Additional Risks Related to Our Business

We currently have limited sales and marketing resources or experience and the failure to build and manage a sales force, or to market and distribute the Viveve System effectively, could have a material adverse effect on our business.

Currently, our sales and marketing organization is structured so that we would rely on a direct sales force to sell the Viveve System in the United States. Beginning in the first quarter of 2019, we anticipate reorganizing our U.S. sales and marketing organization such that we now expect to utilize (i) our existing partnership with Aesthetic Management Partners (AMP), which is a network of independent partnership sales representatives, and regional distribution partners for the sales and marketing of our products to aesthetic practices, and (ii) a direct sales force for sales and marketing to other medical practitioners, including specialists such as gynecologists, urologists and urogynecologists. We plan to continue to incorporate practice development managers into our sales organization to support such medical practitioners. We believe our reorganization will help reduce our operating expenses through 2019 and 2020 while allowing us to focus on our market development efforts. We do not currently anticipate making any changes to our international distribution network.

Our reorganization may not have the desired effect of reducing our operating expenses and may result in a disruption to our business, adversely affect our sales and marketing organization and make it more difficult to retain qualified personnel. In addition, our management may divert a disproportionate amount of time away from its day-to-day activities to devoting a substantial amount of time to managing the reorganization which may increase our expenses. Our future financial performance and ability to compete effectively will depend, in part, on our ability to effectively manage the reorganization and future growth. To that end, we must be able to:

- hire qualified individuals as needed;
- provide adequate training for the effective sale of our device; and
- retain and motivate sales employees.

We may not be able to accomplish these tasks and successfully execute the reorganization which could harm our financial results and have a material adverse effect on our business.

Our ability to use our net operating losses to offset future taxable income may be subject to certain limitations which could affect our ability to realize tax benefits from our net operating losses.

Our ability to use our net operating losses to offset future taxable income may be subject to certain limitations. As of December 31, 2017, we had federal and state net operating loss carryforwards (“NOLs”) of approximately \$78.9 million and \$50.5 million, respectively, due to prior period losses. In general, under Section 382 of the Internal Revenue Code of 1986, as amended (the “Code”), a corporation that undergoes an “ownership change” can be subject to limitations on its ability to utilize its NOLs to offset future taxable income. Our existing NOLs may be subject to limitations arising from past ownership changes, including in connection with this offering. Future changes in our stock ownership, some of which are outside of our control, could result in an ownership change under Section 382 of the Code. In addition, under the Tax Cuts and Jobs Act (the “Tax Act”), the amount of future NOLs that we are permitted to deduct in any taxable year is limited to 80% of our taxable income in such year, where taxable income is determined without regard to the NOL deduction itself. In addition, the Tax Act generally eliminates the ability to carryback any NOLs generated after December 31, 2017 to prior taxable years, while allowing such unused NOLs to be carried forward indefinitely. There is a risk that due to changes under the Tax Act, regulatory changes or other unforeseen reasons, our existing NOLs could expire or otherwise be unavailable to offset future income tax liabilities. For these reasons, we may not be able to realize a tax benefit from the use of our NOLs, whether or not we attain profitability.

We do not expect to declare or pay dividends in the foreseeable future which could reduce a return in your investment in us.

We have never paid cash dividends on our common stock and have no plans to do so in the foreseeable future which could reduce a return in your investment in us. We intend to retain our earnings to develop, carry on and expand our business. In addition, the terms of the indebtedness of our existing credit facility also restrict us from paying cash dividends to our stockholders under some circumstances.

USE OF PROCEEDS

Based on the public offering price of \$1.50 per share of common stock, we estimate that the net proceeds to us from the sale of the shares of common stock that we are offering will be approximately \$18.5 million or approximately \$21.3 million, if the option to purchase additional shares is exercised in full by the underwriters, in each case, after deducting underwriting discounts, commissions and estimated offering expenses payable by us.

We expect to use the net proceeds received from this offering as follows:

- to support the continued commercialization of our products in North America and internationally;
- to obtain additional regulatory clearances and to conduct the VIVEVE II Sexual Function and LIBERATE – International and LIBERATE – U.S. SUI clinical trials; and
- for general corporate and working capital purposes.

Even if we sell all of the securities in this offering, we will still need to obtain additional financing in the future in order to fully fund our business through the FDA regulatory clearance or approval process. We may elect to seek such additional financing through public or private equity, debt offerings or other sources, including collaborative or other arrangements with corporate partners, or through refinancing or increasing the lines of credit under our existing credit facility. There can be no assurance we will be able to obtain such additional financing or that such additional financing will be on terms that are favorable to us. Although we currently anticipate that we will use the net proceeds of this offering as described above, there may be circumstances where a reallocation of funds may be necessary. The amounts and timing of our actual expenditures will depend upon numerous factors, including the progress of our development and commercialization efforts, the progress of our clinical trials, whether or not we enter into strategic collaborations or partnerships and our operating costs and expenditures. Accordingly, our management will have significant flexibility in applying the net proceeds of this offering without your approval or consent.

The costs and timing of regulatory approval, particularly conducting clinical trials, are highly uncertain, are subject to substantial risks and can often change. Accordingly, we may change the allocation of these proceeds as a result of contingencies such as the progress and results of our clinical studies and other development activities, the establishment of collaborations, our manufacturing requirements and regulatory or competitive developments.

Pending the application of the net proceeds as described above or otherwise, we may invest the proceeds in short-term, investment-grade, interest-bearing securities or guaranteed obligations of the U.S. government or other securities.

DILUTION

If you purchase our common stock in this offering, your ownership interest will be diluted to the extent of the difference between the price per share 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 September 30, 2018 was approximately \$(2.8) million, or approximately \$(0.09) per share of common stock, based upon 31,523,454 shares outstanding as of that date. Net tangible book value per share is equal to our total tangible assets, less our total liabilities, divided by the total number of shares outstanding.

After giving effect to the sale of the shares of common stock in this offering at the public offering price of \$1.50 per share of common stock, excluding the exercise of the underwriters' option to purchase additional shares and after deducting underwriting discounts, commissions and other estimated offering expenses payable by us, our adjusted net tangible book value as of September 30, 2018 would have been approximately \$15.7 million, or approximately \$0.35 per share. This represents an immediate increase in net tangible book value of approximately \$0.44 per share to our existing stockholders, and an immediate dilution of \$1.15 per share to investors purchasing shares of common stock in the offering.

The following table illustrates the per share dilution to investors purchasing shares of common stock in the offering:

| | | | |
|--|----|--------|------|
| Public offering price per share of common stock | | \$ | 1.50 |
| Net tangible book value per share as of September 30, 2018 | \$ | (0.09) | |
| Increase per share attributable to sale of common stock to investors | | 0.44 | |
| Adjusted net tangible book value per share after the offering | | | 0.35 |
| Dilution per share to investors | | \$ | 1.15 |

The above calculation is based on 31,523,454 shares of common stock outstanding as of September 30, 2018 and excludes as of that date:

- 4,298,565 shares of common stock issuable upon the exercise of stock options outstanding as of September 30, 2018, at a weighted-average exercise price of \$4.64 per share;
- 642,622 shares of common stock issuable upon the exercise of warrants to purchase common stock outstanding as of September 30, 2018;
- 378,615 shares of common stock reserved for future issuance under the Viveve Medical, Inc. Amended and Restated 2013 Stock Option and Incentive Plan as of September 30, 2018;
- 307,046 shares of common stock that are available for future issuance under the Viveve Medical, Inc. 2017 Employee Stock Purchase Plan as of September 30, 2018; and
- issuances of additional shares of common stock subsequent to September 30, 2018.

In addition, the amounts in the table above assume no exercise by the underwriters of their option to purchase additional shares.

If the underwriters exercise their option to purchase 1,999,999 shares of common stock in full, the as adjusted net tangible book value after this offering would be approximately \$0.39 per share, representing an increase in net tangible book value of approximately \$0.48 per share to existing stockholders and immediate dilution in net tangible book value of approximately \$1.11 per share to investors purchasing our common stock in this offering at the public offering price.

DIVIDEND POLICY

We have not paid dividends on our common stock, and we do not currently anticipate paying any dividends on our common stock in the foreseeable future. Any future determination as to our dividend policy will be made at the discretion of our board of directors and will depend upon many factors, including our financial condition, earnings, legal requirements, covenants in future debt agreements and other factors our board of directors deems relevant. The terms of the indebtedness of our existing credit facility also restrict us from paying cash dividends to our stockholders under some circumstances. See “Risk Factors—We do not expect to declare or pay dividends in the foreseeable future.”

PRICE RANGE OF COMMON STOCK

The following table sets forth, for the periods indicated, the high and low sales prices of our common stock as reported by The Nasdaq Capital Market:

| | High | Low |
|--|-------------|------------|
| Fourth quarter 2016 | \$ 7.99 | \$ 4.38 |
| First quarter 2017 | \$ 6.75 | \$ 3.75 |
| Second quarter 2017 | \$ 11.16 | \$ 5.51 |
| Third quarter 2017 | \$ 7.73 | \$ 4.87 |
| Fourth quarter 2017 | \$ 5.95 | \$ 4.30 |
| First quarter 2018 | \$ 5.22 | \$ 3.30 |
| Second quarter 2018 | \$ 4.34 | \$ 1.60 |
| Third quarter 2018 | \$ 3.55 | \$ 2.01 |
| Fourth quarter 2018 (through December 6, 2018) | \$ 3.71 | \$ 1.75 |

On December 6, 2018, the closing price as reported on The Nasdaq Capital Market of our common stock was \$1.86 per share. As of December 6, 2018, we had approximately 633 holders of record of our common stock.

MATERIAL U.S. FEDERAL INCOME TAX CONSIDERATIONS FOR NON-U.S. HOLDERS OF COMMON STOCK

The following discussion is a summary of the material U.S. federal income tax considerations applicable to non-U.S. holders (as defined below) with respect to their ownership and disposition of shares of our common stock issued pursuant to this offering. For purposes of this discussion, a non-U.S. holder means a beneficial owner of our common stock that is for U.S. federal income tax purposes:

- a non-resident alien individual;
- a foreign corporation or any other foreign organization taxable as a corporation for U.S. federal income tax purposes;
- a foreign estate, the income of which is not subject to U.S. federal income tax on a net income basis; or
- a trust, (A) that does not have a valid election in effect under applicable United States Treasury regulations to be treated as a United States Person, and (B) either (i) which is not subject to the primary supervision of a court within the United States, or (ii) for which one or more United States persons do not have the authority to control all substantial decisions.

This discussion does not address the tax treatment of partnerships or other entities that are pass-through entities for U.S. federal income tax purposes or persons that hold their common stock through partnerships or other pass-through entities. A partner in a partnership or other pass-through entity that will hold our common stock should consult his, her or its own tax advisor regarding the tax consequences of acquiring, holding and disposing of our common stock through a partnership or other pass-through entity, as applicable.

This discussion is based on current provisions of the U.S. Internal Revenue Code of 1986, as amended, which we refer to as the Code, existing and proposed U.S. Treasury Regulations promulgated thereunder, current administrative rulings and judicial decisions, all as in effect as of the date of this prospectus supplement and, all of which are subject to change or to differing interpretation, possibly with retroactive effect. Any such change or differing interpretation could alter the tax consequences to non-U.S. holders described in this prospectus supplement. There can be no assurance that the Internal Revenue Service, which we refer to as the IRS, will not challenge one or more of the tax consequences described herein. We assume in this discussion that a non-U.S. holder holds shares of our common stock as a capital asset, generally property held for investment.

This discussion does not address all aspects of U.S. federal income that may be relevant to a particular non-U.S. holder in light of that non-U.S. holder's individual circumstances nor does it address any aspects of any U.S. state, local or non-U.S. taxes, the alternative minimum tax, any tax considerations resulting from a non-U.S. holder having a functional currency other than the U.S. dollar, the Medicare tax on net investment income; or any other U.S. federal tax other than the income tax,. This discussion also does not consider any specific facts or circumstances that may apply to a non-U.S. holder and does not address the special tax rules applicable to particular non-U.S. holders, such as:

- banks;
- insurance companies;
- tax exempt or governmental organizations;
- financial institutions;
- brokers or dealers in securities;
- regulated investment companies;
- tax-qualified retirement plant;
- pension plans;
- "controlled foreign corporations," "passive foreign investment companies," and corporations that accumulate earnings to avoid U.S. federal income tax;
- "qualified foreign pension funds," or entities wholly owned by a "qualified foreign pension fund";
- persons deemed to sell our common stock under the constructive sale provisions of the Code;
- persons that elect to apply Section 1400Z-2 of the Code to gains recognized with respect to shares of our common stock;
- persons that hold our common stock as part of a straddle, hedge, conversion transaction, synthetic security or

other integrated investment;

- persons who hold or receive our common stock pursuant to the exercise of any employee stock option or otherwise as compensation;

- persons who have elected to mark securities to market;
- persons for whom our stock constitutes “qualified small business stock” within the meaning of Section 1202 of the Code or as “Section 1244 stock” for purposes of Section 1244 of the Code; and
- certain U.S. expatriates.

This discussion is for general information only and is not tax advice. Accordingly, all prospective non-U.S. holders of our common stock should consult their own tax advisors with respect to the U.S. federal, state, local and non-U.S. tax consequences of the purchase, ownership and disposition of our common stock.

Distributions on Our Common Stock

Distributions, if any, on our common stock generally will constitute dividends for U.S. federal income tax purposes to the extent paid from our current or accumulated earnings and profits, as determined under U.S. federal income tax principles. If a distribution exceeds our current and accumulated earnings and profits, the excess will be treated as a tax-free return of the non-U.S. holder’s investment, up to such holder’s tax basis in the common stock. Any remaining excess will be treated as capital gain, subject to the tax treatment described below in “Gain on sale, exchange or other disposition of our common stock.” Any such distributions will also be subject to the discussion below under the section titled “Withholding and Information Reporting Requirements—FATCA.”

Subject to the discussion in the following two paragraphs in this section, dividends paid to a non-U.S. holder generally will be subject to withholding of U.S. federal income tax at a 30% rate or such lower rate as may be specified by an applicable income tax treaty between the United States and such holder’s country of residence.

A non-U.S. holder of our common stock who claims the benefit of an applicable income tax treaty between the United States and such holder’s country of residence generally will be required to provide a properly executed IRS Form W-8BEN or W-8BEN-E (or successor form) and satisfy applicable certification and other requirements. Non-U.S. holders are urged to consult their tax advisors regarding their entitlement to benefits under a relevant income tax treaty. A non-U.S. holder that is eligible for a reduced rate of U.S. withholding tax under an income tax treaty may obtain a refund or credit of any excess amounts withheld by timely filing a U.S. tax return with the IRS.

Dividends that are treated as effectively connected with a trade or business conducted by a non-U.S. holder within the United States and, if an applicable income tax treaty so provides, that are attributable to a permanent establishment or a fixed base maintained by the non-U.S. holder within the United States, are generally exempt from the 30% withholding tax if the non-U.S. holder satisfies applicable certification and disclosure requirements. To obtain this exemption, a non-U.S. holder must generally provide a properly executed original and unexpired IRS Form W-8ECI properly certifying such exemption. However, such U.S. effectively connected income, net of specified deductions and credits, is taxed at the same graduated U.S. federal income tax rates applicable to United States persons (as defined in the Code). Any U.S. effectively connected income received by a non-U.S. holder that is a corporation may also, under certain circumstances, be subject to an additional “branch profits tax” at a 30% rate or such lower rate as may be specified by an applicable income tax treaty between the United States and such holder’s country of residence.

Any documentation provided to an applicable withholding agent may need to be updated in certain circumstances. The certification requirements described above may also require a non-U.S. holder to provide its U.S. taxpayer identification number.

Gain on Sale or Other Taxable Disposition of Our Common Stock

Subject to the discussion below under “Backup Withholding and Information Reporting” and “Withholding and Information Reporting Requirements – FATCA,” a non-U.S. holder generally will not be subject to any U.S. federal income or withholding tax on any gain realized upon such holder’s sale or other taxable disposition of shares of our common stock unless:

- the gain is effectively connected with the non-U.S. holder’s conduct of a U.S. trade or business and, if an applicable income tax treaty so provides, is attributable to a permanent establishment or a fixed-base maintained by such non-U.S. holder in the United States, in which case the non-U.S. holder generally will be taxed on a net income basis at the graduated U.S. federal income tax rates applicable to United States persons (as defined in the Code) and, if the non-U.S. holder is a foreign corporation, the branch profits tax described above in “Distributions on Our Common Stock” also may apply;
- the non-U.S. holder is a nonresident alien individual who is present in the United States for 183 days or more in the taxable year of the disposition and certain other conditions are met, in which case the non-U.S. holder will be subject to a 30% tax (or such lower rate as may be specified by an applicable income tax treaty between the United States and such holder’s country of residence) on the net gain derived from the disposition, which may be offset by certain U.S. source capital losses of the non-U.S. holder, if any (even though the individual is not considered a resident of the United States), provided that the non-U.S. holder has timely filed U.S. federal income tax returns with respect to such losses; or
- we are, or have been, at any time during the five-year period preceding such sale or other taxable disposition (or the non-U.S. holder’s holding period, if shorter) a “U.S. real property holding corporation,” unless our common stock is regularly traded on an established securities market, as defined by applicable Treasury Regulations, and the non-U.S. holder holds no more than 5% of our outstanding common stock, directly or indirectly, actually or constructively, during the shorter of the 5-year period ending on the date of the disposition or the period that the non-U.S. holder held our common stock. If we are determined to be a U.S. real property holding corporation and the foregoing exception does not apply, then a purchaser may generally withhold 15% of the proceeds payable to a non-U.S. holder from a sale of our common stock and the non-U.S. holder generally will be taxed on its net gain derived from the disposition at the graduated U.S. federal income tax rates applicable to United States persons (as defined in the Code). Generally, a corporation is a U.S. real property holding corporation only if the fair market value of its U.S. real property interests equals or exceeds 50% of the sum of the fair market value of its worldwide real property interests plus its other assets used or held for use in a trade or business. Although there can be no assurance, we do not believe that we are, or have been, a U.S. real property holding corporation, or that we are likely to become one in the future. No assurance can be provided that our common stock will be regularly traded on an established securities market for purposes of the rules described above.

Backup Withholding and Information Reporting

We must report annually to the IRS and to each non-U.S. holder the gross amount of the distributions on our common stock paid to such holder and the tax withheld, if any, with respect to such distributions. Non-U.S. holders may have to comply with specific certification procedures to establish that the holder is not a United States person (as defined in the Code) in order to avoid backup withholding at the applicable rate, currently 24%, with respect to dividends on our common stock. Dividends paid to non-U.S. holders subject to withholding of U.S. federal income tax, as described above in “Distributions on Our Common Stock,” generally will be exempt from U.S. backup withholding.

Information reporting and backup withholding will generally apply to the proceeds of a disposition of our common stock by a non-U.S. holder effected by or through the U.S. office of any broker, U.S. or foreign, unless the holder certifies its status as a non-U.S. holder and satisfies certain other requirements, or otherwise establishes an exemption. Generally, information reporting and backup withholding will not apply to a payment of disposition proceeds to a non-U.S. holder where the transaction is effected outside the United States through a non-U.S. office of a broker. However, for information reporting purposes, dispositions effected through a non-U.S. office of a broker with substantial U.S. ownership or operations generally will be treated in a manner similar to dispositions effected through a U.S. office of a broker. Non-U.S. holders should consult their own tax advisors regarding the application of the information reporting and backup withholding rules to them. Copies of information returns may be made available to the tax authorities of the country in which the non-U.S. holder resides or is incorporated under the provisions of a specific treaty or agreement. Backup withholding is not an additional tax. Any amounts withheld under the backup withholding rules from a payment to a non-U.S. holder can be refunded or credited against the non-U.S. holder’s U.S. federal income tax liability, if any, provided that an appropriate claim is filed with the IRS in a timely manner.

Withholding and Information Reporting Requirements—FATCA

The Foreign Account Tax Compliance Act, or FATCA, generally imposes a U.S. federal withholding tax at a rate of 30% on payments of dividends on, or gross proceeds from the sale or other disposition of, our common stock paid to a foreign entity unless (i) if the foreign entity is a “foreign financial institution,” such foreign entity undertakes certain due diligence, reporting, withholding, and certification obligations, (ii) if the foreign entity is not a “foreign financial institution,” such foreign entity identifies certain of its U.S. investors, if any, or (iii) the foreign entity is otherwise exempt under FATCA. Under applicable U.S. Treasury regulations, withholding under FATCA currently applies to payments of dividends on our common stock, but will only apply to payments of gross proceeds from a sale or other disposition of our common stock made after December 31, 2018. Under certain circumstances, a non-U.S. holder may be eligible for refunds or credits of this withholding tax. An intergovernmental agreement between the United States and an applicable foreign country may modify the requirements described in this paragraph. Non-U.S. holders should consult their tax advisors regarding the possible implications of this legislation on their investment in our common stock and the entities through which they hold our common stock, including, without limitation, the process and deadlines for meeting the applicable requirements to prevent the imposition of the 30% withholding tax under FATCA.

The preceding discussion of material U.S. federal tax considerations is for general information only. It is not tax advice. Prospective investors should consult their own tax advisors regarding the particular U.S. federal, state, local and non-U.S. tax consequences of purchasing, holding and disposing of our common stock, including the consequences of any proposed changes in applicable laws.

UNDERWRITING

We and the underwriters for the offering named below have entered into an underwriting agreement with respect to the common stock being offered. Subject to the terms and conditions of the underwriting agreement, each underwriter has severally agreed to purchase from us the number of shares of our common stock set forth opposite its name below. Cowen and Company, LLC is the representative of the underwriters.

| Underwriter | Number of Shares |
|----------------------------------|------------------|
| Cowen and Company, LLC | 9,333,334 |
| Raymond James & Associates, Inc. | 2,000,000 |
| Mizuho Securities USA LLC | 2,000,000 |
| Total | 13,333,334 |

The underwriting agreement provides that the obligations of the underwriters are subject to certain conditions precedent and that the underwriters have agreed, severally and not jointly, to purchase all of the shares sold under the underwriting agreement if any of these shares are purchased, other than those shares covered by the option to purchase additional shares described below. If an underwriter defaults, the underwriting agreement provides that the purchase commitments of the non-defaulting underwriters may be increased or the underwriting agreement may be terminated.

We have agreed to indemnify the underwriters against specified liabilities, including liabilities under the Securities Act, and to contribute to payments the underwriters may be required to make in respect thereof.

The underwriters are offering the shares, subject to prior sale, when, as and if issued to and accepted by them, subject to approval of legal matters by their counsel and other conditions specified in the underwriting agreement. The underwriters reserve the right to withdraw, cancel or modify offers to the public and to reject orders in whole or in part.

Option to Purchase Additional Shares. We have granted to the underwriters an option to purchase up to 1,999,999 additional shares of common stock at the public offering price, less the underwriting discount. This option is exercisable for a period of 30 days from the date of the underwriting agreement. To the extent that the underwriters exercise this option, the underwriters will purchase additional shares from us in approximately the same proportion as shown in the table above.

Discounts and Commissions. The following table shows the public offering price, underwriting discount and proceeds, before expenses to us. These amounts are shown assuming both no exercise and the full exercise of the underwriters' option to purchase additional shares.

We estimate that the total expenses of the offering, excluding underwriting discounts, will be approximately \$347,500 and are payable by us. We have agreed to reimburse the underwriters up to \$50,000 for fees, costs, disbursements and out-of-pocket expenses incurred by the underwriters in connection with the offering, including fees and costs of underwriters' counsel and legal counsel fees related to FINRA matters. In accordance with FINRA Rule 5110, this reimbursed FINRA fee is deemed underwriting compensation for this offering.

| | Total | | |
|----------------------------------|-----------|----------------|-------------|
| | Per Share | Without Option | With Option |
| Public offering price | 1.50 | 20,000,001 | 23,000,000 |
| Underwriting discount | 0.09 | 1,200,000 | 1,380,000 |
| Proceeds, before expenses, to us | 1.41 | 18,800,001 | 21,620,000 |

The underwriters propose to offer the shares of common stock to the public at the public offering price set forth on the cover of this prospectus supplement. The underwriters may offer the shares of common stock to securities dealers at the public offering price less a concession not in excess of \$0.09 per share. If all of the shares are not sold at the public offering price, the underwriters may change the offering price and other selling terms.

Discretionary Accounts. The underwriters do not intend to confirm sales of the shares to any accounts over which they have discretionary authority.

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

- Stabilizing transactions permit bids to purchase shares of common stock 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 common stock while the offering is in progress.
- Overallotment 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 over-allotted by the underwriters is not greater than the number of shares that they may purchase in the option to purchase additional shares. In a naked short position, the number of shares involved is greater than the number of shares in the option to purchase additional shares. The underwriters may close out any short position by exercising their option to purchase additional shares and/or purchasing shares 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 shares to close out the short position, the underwriters will consider, among other things, the price of shares available for purchase in the open market as compared with the price at which they may purchase shares through exercise of the option to purchase additional shares. If the underwriters sell more shares than could be covered by exercise of the option to purchase additional shares and, therefore, have a naked short position, the position can be closed out only by buying shares 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 representative to reclaim a selling concession from a syndicate member when the common stock originally sold by that syndicate member is 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 price of our common stock. These transactions may be effected on The Nasdaq Capital Market, in the over-the-counter market or otherwise and, if commenced, may be discontinued at any time.

Passive Market Making. In connection with this offering, underwriters and selling group members may engage in passive market making transactions in our common stock on the Nasdaq Stock Market in accordance with Rule 103 of Regulation M under the Securities Exchange Act of 1934, as amended, during a period before the commencement of offers or sales of common stock 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, such bid must then be lowered when specified purchase limits are exceeded.

Lock-Up Agreements. Pursuant to certain "lock-up" agreements, we and our executive officers, directors and certain stockholders that are affiliated with our directors have agreed, subject to certain exceptions, not to offer, sell, assign, transfer, pledge, contract to sell, or otherwise dispose of or announce the intention to otherwise dispose of, or enter into any swap, hedge or similar agreement or arrangement that transfers, in whole or in part, the economic consequence of ownership of, directly or indirectly, or make any demand or request or exercise any right with respect to the registration of, or file with the SEC a registration statement under the Securities Act relating to, any common stock or securities convertible into or exchangeable or exercisable for any common stock without the prior written consent of Cowen and Company, LLC, for a period of 90 days after the date of the pricing of the offering.

This lock-up provision applies to common stock and to securities convertible into or exchangeable or exercisable for common stock. It also applies to common stock owned now or acquired later by the person executing the agreement or for which the person executing the agreement later acquires the power of disposition. The exceptions permit us, among other things and subject to restrictions, to: (a) issue common stock or options pursuant to employee benefit plans, (b) issue common stock upon exercise of outstanding options or warrants, or (c) file registration statements on Form S-8. The exceptions permit parties to the "lock-up" agreements, among other things and subject to restrictions, to: (a) make certain gifts, (b) if the party is a corporation, partnership, limited liability company or other business entity, make transfers to any shareholders, partners, members of, or owners of similar equity interests in, the party, or to an affiliate of the party, if such transfer is not for value, and (c) if the party is a corporation, partnership, limited liability company or other business entity, make transfers in connection with the sale or transfer of all of the party's capital stock, partnership interests, membership interests or other similar equity interests, as the case may be, or all or substantially all of the party's assets, in any such case not undertaken for the purpose of avoiding the restrictions imposed by the "lock-up" agreement. In addition, the lock-up provision will not restrict broker-dealers from engaging in market making and similar activities conducted in the ordinary course of their business.

Cowen and Company, LLC, in its sole discretion, may release our common stock and other securities subject to the lock-up agreements described above in whole or in part at any time. When determining whether or not to release our common stock and other securities from lock-up agreements, Cowen and Company, LLC will consider, among other factors, the holder's reasons for requesting the release, the number of shares for which the release is being requested and market conditions at the time of the request.

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

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

Pursuant to section 3A.3 of National Instrument 33-105 *Underwriting Conflicts* (NI 33-105), the underwriters are not required to comply with the disclosure requirements of NI 33-105 regarding underwriter conflicts of interest in connection with this offering.

United Kingdom. Each of the underwriters has represented and agreed that:

- it has not made or will not make an offer of the securities to the public in the United Kingdom within the meaning of section 102B of the Financial Services and Markets Act 2000 (as amended) (FSMA) except to legal entities which 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 or otherwise in circumstances which do not require the publication by us of a prospectus pursuant to the Prospectus Rules of the Financial Services Authority (FSA);
- it has only communicated or caused to be communicated and will only communicate or cause to be communicated an invitation or inducement to engage in investment activity (within the meaning of section 21 of FSMA) to persons who have professional experience in matters relating to investments falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 or in circumstances in which section 21 of FSMA does not apply to us; and
- it has complied with and will comply with all applicable provisions of FSMA with respect to anything done by it in relation to the securities in, from or otherwise involving the United Kingdom.

Switzerland. The securities will not be offered, directly or indirectly, to the public in Switzerland and this prospectus does not constitute a public offering prospectus as that term is understood pursuant to article 652a or 1156 of the Swiss Federal Code of Obligations.

European Economic Area. In relation to each Member State of the European Economic Area (the "EEA") which has implemented the European Prospectus Directive (each, a "Relevant Member State"), an offer of our shares may not be made to the public in a Relevant Member State other than:

- to any legal entity which is a qualified investor, as defined in the European Prospectus Directive;
- to fewer than 150 natural or legal persons (other than qualified investors as defined in the European Prospectus Directive), subject to obtaining the prior consent of the relevant dealer or dealers nominated by us for any such offer, or;
- in any other circumstances falling within Article 3(2) of the European Prospectus Directive,

provided that no such offer of our shares shall require us or any underwriter to publish a prospectus pursuant to Article 3

of the European Prospectus Directive or supplement prospectus pursuant to Article 16 of the European Prospectus Directive and each person who initially acquires any shares or to whom any offer is made will be deemed to have represented, acknowledged and agreed to and with each of the underwriters and with us that it is a “qualified investor” within the meaning of the law in that Relevant Member State implementing Article 2(1)(e) of the European Prospectus Directive.

In the case of any shares being offered to a financial intermediary as that term is used in Article 3(2) of the European Prospectus Directive, each such financial intermediary will be deemed to have represented, acknowledged and agreed that the shares acquired by it in the offer have not been acquired on a non-discretionary basis on behalf of, nor have they been acquired with a view to their offer or resale to, persons in circumstances which may give rise to an offer or any shares to the public other than their offer or resale in a Relevant Member State to qualified investors as so defined or in circumstances in which the prior consent of the representative has been obtained to each such proposed offer or resale.

For the purposes of this description, the expression an “offer to the public” in relation to the securities in any Relevant Member State means the communication in any form and by any means of sufficient information on the terms of the offer and the securities to be offered so as to enable an investor to decide to purchase or subscribe for the securities, as the expression may be varied in that Relevant Member State by any measure implementing the European Prospectus Directive in that member state, and the expression “European Prospectus Directive” means Directive 2003/71/EC (and amendments hereto, including the 2010 PD Amending Directive, to the extent implemented in the Relevant Member State) and includes any relevant implementing measure in each Relevant Member State. The expression 2010 PD Amending Directive means Directive 2010/73/EU.

Israel. In the State of Israel this prospectus shall not be regarded as an offer to the public to purchase shares of common stock under the Israeli Securities Law, 5728 – 1968, which requires a prospectus to be published and authorized by the Israel Securities Authority, if it complies with certain provisions of Section 15 of the Israeli Securities Law, 5728–1968, including, inter alia, if: (i) the offer is made, distributed or directed to not more than 35 investors, subject to certain conditions (the “Addressed Investors”); or (ii) the offer is made, distributed or directed to certain qualified investors defined in the First Addendum of the Israeli Securities Law, 5728 – 1968, subject to certain conditions (the “Qualified Investors”). The Qualified Investors shall not be taken into account in the count of the Addressed Investors and may be offered to purchase securities in addition to the 35 Addressed Investors. The company has not and will not take any action that would require it to publish a prospectus in accordance with and subject to the Israeli Securities Law, 5728 – 1968. We have not and will not distribute this prospectus or make, distribute or direct an offer to subscribe for our common stock to any person within the State of Israel, other than to Qualified Investors and up to 35 Addressed Investors.

Qualified Investors may have to submit written evidence that they meet the definitions set out in of the First Addendum to the Israeli Securities Law, 5728 – 1968. In particular, we may request, as a condition to be offered common stock, that Qualified Investors will each represent, warrant and certify to us and/or to anyone acting on our behalf: (i) that it is an investor falling within one of the categories listed in the First Addendum to the Israeli Securities Law, 5728 – 1968; (ii) which of the categories listed in the First Addendum to the Israeli Securities Law, 5728 – 1968 regarding Qualified Investors is applicable to it; (iii) that it will abide by all provisions set forth in the Israeli Securities Law, 5728 – 1968 and the regulations promulgated thereunder in connection with the offer to be issued common stock; (iv) that the shares of common stock that it will be issued are, subject to exemptions available under the Israeli Securities Law, 5728 – 1968: (a) for its own account; (b) for investment purposes only; and (c) not issued with a view to resale within the State of Israel, other than in accordance with the provisions of the Israeli Securities Law, 5728 – 1968; and (v) that it is willing to provide further evidence of its Qualified Investor status. Addressed Investors may have to submit written evidence in respect of their identity and may have to sign and submit a declaration containing, inter alia, the Addressed Investor’s name, address and passport number or Israeli identification number.

We have not authorized and do not authorize the making of any offer of securities through any financial intermediary on our behalf, other than offers made by the underwriters and their respective affiliates, with a view to the final placement of the securities as contemplated in this document. Accordingly, no purchaser of the shares, other than the underwriters, is authorized to make any further offer of shares on our behalf or on behalf of the underwriters.

Electronic Offer, Sale and Distribution of Shares. A prospectus in electronic format may be made available on the websites maintained by one or more of the underwriters or selling group members, if any, participating in this offering and one or more of the underwriters participating in this offering may distribute prospectuses electronically. The representative may agree to allocate a number of shares to underwriters and selling group members for sale to their online brokerage account holders. Internet distributions will be allocated by the underwriters and selling group members that will make internet distributions on the same basis as other allocations. Other than the prospectus in electronic format, the information on these websites is not part of this prospectus supplement, the accompanying prospectuses or the registration statements of which this prospectus supplement forms a part, has not been approved or endorsed by us or any underwriter in its capacity as underwriter, and should not be relied upon by investors.

Other Relationships. Certain of the underwriters and their affiliates have provided, and may in the future provide, various investment banking, commercial banking and other financial services for us and our affiliates for which they have received, and may in the future receive, customary fees.

LEGAL MATTERS

The validity of the shares of common stock offered hereby will be passed upon for us by Goodwin Procter LLP, San Francisco, California. Certain legal matters relating to this offering will be passed upon for the underwriters by Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., Boston, Massachusetts.

EXPERTS

The consolidated financial statements of Viveve Medical, Inc. as of December 31, 2017 and 2016 and for each of the two years in the period ended December 31, 2017, incorporated in this prospectus supplement by reference to Viveve Medical, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2017, have been so incorporated in reliance on the report of BPM LLP, an independent registered public accounting firm, given the authority of said firm as experts in auditing and accounting.

WHERE YOU CAN FIND MORE INFORMATION

This prospectus supplement is part of the 2016 Registration Statement and the 2017 Registration Statement that we have filed with the SEC. Certain information in this prospectus supplement, filed as part of the 2016 Registration Statement and the 2017 Registration Statement, has been omitted from this prospectus supplement in accordance with the rules of the SEC. For further information about us, we refer you to the 2016 Registration Statement and the 2017 Registration Statement and to their exhibits and schedules.

We are subject to the information requirements of the Exchange Act and, in accordance therewith, file annual, quarterly and current reports, proxy statements and other information with the SEC. These documents may be accessed through the SEC's website at www.sec.gov. These documents are also available, free of charge, through the Investor Information section of our website, which is ir.viveve.com.

Our website is www.viveve.com. Unless specifically stated, information contained on our website is not incorporated by reference into this prospectus supplement or the accompanying prospectuses and, therefore, is not part of this prospectus supplement or the accompanying prospectuses.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to incorporate by reference into this prospectus supplement the information contained in other documents we file with the SEC, which means that we can disclose important information to you by referring you to those documents. Any statement contained in any document incorporated or deemed to be, incorporated by reference herein shall be deemed to be modified or superseded, for purposes of this prospectus supplement, to the extent that a statement contained in or omitted from this prospectus supplement, or in any other subsequently filed document that also is, or is deemed to be, incorporated by reference herein, modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus supplement. We incorporate by reference the documents listed below, which have been filed by us:

- Annual Report on Form 10-K for the year ended December 31, 2017, filed with the SEC on March 16, 2018;
- Definitive proxy statement on Schedule 14A, which was filed with the SEC on April 16, 2018 to the extent the information in the proxy statement is deemed incorporated by reference into the Annual Report on Form 10-K for the fiscal year ended December 31, 2017;
- Quarterly Reports on Form 10-Q filed with the SEC for the quarterly periods ended March 31, 2018, June 30, 2018 and September 30, 2018, as filed with the SEC on May 10, 2018, August 9, 2018 and November 8, 2018, respectively;
- Current Reports on Form 8-K as filed with the SEC on January 31, 2018, February 8, 2018, March 1, 2018, May 10, 2018, May 17, 2018, May 29, 2018, June 5, 2018, June 18, 2018, September 14, 2018 and December 4, 2018 (but not including any of the foregoing reports or portions thereof that are furnished under Item 2.02 or Item 7.01 and any related exhibits included with such Items); and
- The description of our common stock contained in our registration statement on Form 8-A filed with the SEC on June 13, 2016, including any amendment or report filed for the purpose of updating such description.

Additionally, all documents filed by us with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act (other than any portions of filings that are furnished rather than filed pursuant to Items 2.02 and 7.01 of a Current Report on Form 8-K), after the date of this prospectus supplement and before the termination or completion of this offering shall be deemed to be incorporated by reference into this prospectus supplement from the respective dates of filing of such documents. Any information that we subsequently file with the SEC that is incorporated by reference as described above will automatically update and supersede any previous information that is part of this prospectus supplement.

Upon written or oral request, we will provide you without charge, a copy of any or all of the documents incorporated by reference, other than exhibits to those documents unless the exhibits are specifically incorporated by reference in the documents. Please send requests to Mr. Scott Durbin, our Chief Executive Officer, at Viveve Medical, Inc., 345 Inverness Drive South, Building B, Suite 250, Englewood, Colorado; Tel: (720) 696-8100.

PROSPECTUS



\$50,000,000
Common Stock
Preferred Stock
Warrants to Purchase Common Stock or Preferred Stock
Units
Subscription Rights

By this prospectus and an accompanying prospectus supplement, we may from time to time offer and sell, in one or more offerings, up to \$50,000,000 in any combination of common stock, preferred stock, warrants, units or subscription rights to purchase our securities.

We will provide you with more specific terms of these securities in one or more supplements to this prospectus. You should read this prospectus and the applicable prospectus supplement carefully before you invest.

We may offer these securities from time to time in amounts, at prices and on other terms to be determined at the time of the offering. We may offer and sell these securities to or through underwriters, dealers or agents, or directly to investors, on a continuous or delayed basis. The supplements to this prospectus will provide the specific terms of the plan of distribution. The price to the public of such securities and the net proceeds we expect to receive from such sale will also be set forth in a prospectus supplement.

Our common stock is listed on The Nasdaq Capital Market under the symbol "VIVE." On October 3, 2016, the closing price of our common stock as reported by The Nasdaq Capital Market was \$7.02 per share. On October 3, 2016, the aggregate market value of our voting common equity securities held by non-affiliates totaled \$42,708,276. During the 12 month period prior to and including the date of this prospectus, we did not offer any securities pursuant to General Instruction I.B.6 of Form S-3.

An investment in our common stock involves a high degree of risk. See "Risk Factors" on page 6 of this prospectus for more information on these risks.

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

The date of this prospectus is October 7, 2016.

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement filed with the Securities and Exchange Commission (the “SEC”) using a “shelf” registration process. Under this shelf process, we may sell the securities described in this prospectus in one or more offerings. This prospectus provides you with a general description of the securities which may be offered. Each time we offer securities for sale, we will provide a prospectus supplement that contains specific information about the terms of that offering. Any prospectus supplement may also add or update information contained in this prospectus. You should read both this prospectus and any prospectus supplement together with additional information described below under “Where You Can Find More Information” and “Information Incorporated by Reference”.

The registration statement that contains this prospectus (including the exhibits thereto) contains additional important information about us and the securities we may offer under this prospectus. Specifically, we have filed certain legal documents that establish the terms of the securities offered by this prospectus as exhibits to the registration statement. We will file certain other legal documents that establish the terms of the securities offered by this prospectus as exhibits to reports we file with the SEC. You may obtain copies of that registration statement and the other reports and documents referenced herein as described below under the heading “Where You Can Find More Information”.

You should rely only on the information contained or incorporated by reference in this prospectus and in any prospectus supplement. 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 offers to sell or solicitations to buy the securities in any jurisdiction in which an offer or solicitation is not authorized or in which the person making that offer or solicitation is not qualified to do so or to anyone to whom it is unlawful to make an offer or solicitation. You should not assume that the information in this prospectus or any prospectus supplement, as well as the information we file or previously filed with the SEC that we incorporate by reference in this prospectus or any prospectus supplement, is accurate as of any date other than its respective date. Our business, financial condition, results of operations and prospects may have changed since those dates.

In this prospectus, unless the context otherwise requires, references to “Viveve”, “the Company,” “we,” “us,” and “our” refer to Viveve Medical, Inc. and its wholly-owned subsidiary, Viveve, Inc.

DISCLOSURE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and any accompanying prospectus supplement, including the documents that we incorporate by reference, may contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended (the “Securities Act”), and Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”).

Forward-looking statements in this prospectus and any accompanying prospectus supplement give our current expectations or forecasts of future events. You can identify these statements by the fact that they do not relate strictly to historical or current facts. You can find many (but not all) of these statements by looking for words such as “approximates,” “believes,” “hopes,” “expects,” “anticipates,” “estimates,” “projects,” “intends,” “plans,” “would,” “should,” “could,” “may” or other similar expressions in this prospectus and any prospectus supplement. In particular, forward-looking statements include statements relating to future actions, prospective products and applications, customers, technologies, future performance or future financial results. These forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ materially from our historical experience and our present expectations or projections. Factors that could cause actual results to differ from those discussed in the forward-looking statements include, but are not limited to:

- our limited cash and our history of losses;
- our ability to achieve profitability;
- our limited operating history;
- emerging competition and rapidly advancing technology;
- whether we are successful in having our medical device approved for sale by the FDA;
- whether demand develops for our medical device;
- the impact of competitive or alternative products, technologies and pricing;
- the adequacy of protections afforded to us by the patents that we own and the cost to us of maintaining, enforcing and defending those patents;
- our ability to obtain, expand and maintain patent protection in the future, and to protect our non-patented intellectual property;
- our exposure to and ability to defend third-party claims and challenges to our patents and other intellectual property rights;
- our ability to obtain adequate financing in the future, as and when we need it;
- our ability to continue as a going concern;
- our success at managing the risks involved in the foregoing items; and
- other factors discussed in this prospectus.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. The forward-looking statements are based upon management’s beliefs and assumptions and are made as of the date of this prospectus. We undertake no obligation to publicly update or revise any forward-looking statements included in this prospectus to conform such statements to actual results or changes in our expectations. You should not place undue reliance on these forward-looking statements.

OUR BUSINESS

This is only a summary and may not contain all the information that is important to you. You should carefully read both this prospectus and any accompanying prospectus supplement and any other offering materials, together with the additional information described under the heading "Where You Can Find More Information". Unless otherwise noted, the terms "Viveve", "the Company," "we," "us," and "our" refer to Viveve Medical, Inc. and its wholly-owned subsidiary, Viveve, Inc.

The Company

Viveve® designs, develops, manufactures and markets the Viveve System, a medical device for the non-invasive treatment of vaginal introital laxity. Women can develop vaginal laxity for a number of reasons, including aging, genetic predisposition, lifestyle, and/or the trauma of natural childbirth. Vaginal laxity can often cause decreased sexual function and satisfaction in women, yet most surveyed physicians who practice obstetrics and gynecology ("OB/GYNs") and urogynecologists recognize that it is an underreported, yet bothersome, medical condition that impacts relationship happiness as well as sexual function. Currently, few medical treatments are available to effectively treat vaginal laxity. The most widely prescribed treatments include Kegel exercises, although, to our knowledge, there is no validated evidence indicating that Kegel exercises improve vaginal laxity, and surgical procedures, which are not only invasive and expensive but sometimes lead to worse outcomes as a result of scarring.

The Viveve Treatment is a non-invasive solution for vaginal laxity using the Viveve System. The Viveve System includes three major components: an RF, or radio frequency, generator housed in a table-top console, a reusable handpiece and a single-use treatment tip, as well as several other consumable accessories. Physicians attach the single-use treatment tip to the handpiece, which is connected to the console. The generator authenticates the treatment tip and programs the system for the desired treatment without further physician intervention. The treatment is performed in a physician's office, in less than 30 minutes, and does not require the use of anesthesia. The tissue tightening effect resulting from the application of the Viveve Treatment has been demonstrated by our pre-clinical and clinical research.

Viveve currently has 23 exclusive relationships covering distribution of the Viveve System in 65 countries around the world, and it has regulatory clearance to market and sell the product in 27 of those countries. While Viveve intends to seek the necessary U.S. regulatory approvals, it does not currently hold regulatory clearance from the U.S. Food and Drug Administration (the "FDA") to market and distribute the Viveve System in the U.S. for the treatment of vaginal laxity.

We believe that the Viveve Treatment provides a number of benefits for physicians and patients, including:

- a non-invasive, non-ablative alternative to surgery with no identified safety issues to date;
- it requires only a single treatment;
- compelling physician economics; and
- ease of use.

Our goal is to become the leading provider of non-invasive solutions to treat vaginal laxity by:

- *Increasing the Installed Base of Viveve Systems.* In our existing markets, we plan to (i) expand the number of Viveve Systems from our initial base of early adopters by leveraging our current and future clinical study results and through innovative marketing programs directed at both physicians and patients and (ii) expand our efforts and obtain regulatory approvals in additional markets, although there are no assurances that we will ever receive such approvals.

- *Driving Increased Treatment Tip Usage.* We work collaboratively with our physician customer base to increase treatment tip usage by enhancing customer awareness and facilitating the marketing efforts of our physician customers to their patients. We intend to launch innovative marketing programs with physician customers to develop a profitable Viveve Treatment practice.
- *Broadening Our Physician Customer Base.* While our initial focus is on marketing our procedure to the OB/GYN specialty, we intend to selectively expand our sales efforts into other physician specialties, such as plastic surgery, dermatology, urology, urogynecology, general surgery and family practice. Additionally, we intend to pursue sales from physician-directed medi-spas with track records of safe and successful aesthetic treatments.
- *Developing New Treatment Tips and System Enhancements.* We intend to continue to expand our line of treatment tips to allow for even shorter procedure times to benefit both physicians and patients. We also plan to pursue potential system modifications and next generation enhancements that will further increase the ease-of-use of the Viveve System.
- *Investing in Intellectual Property and Patent Protection.* We will continue to invest in expanding our intellectual property portfolio, and we intend to file for additional patents to strengthen our intellectual property rights.

Merger with PLC Systems, Inc.

On September 23, 2014, Viveve Medical, Inc. (formerly PLC Systems, Inc.) (“Viveve Medical”) completed a reverse acquisition and recapitalization pursuant to the terms and conditions of an Agreement and Plan of Merger (“Merger Agreement”) by and among PLC Systems Acquisition Corp., a wholly owned subsidiary of PLC Systems Inc. with and into Viveve, Inc., a Delaware corporation (the “Merger”). In conjunction with the Merger, we changed our name from PLC Systems Inc. to Viveve Medical, Inc. Viveve, Inc. operates as a wholly-owned subsidiary of Viveve Medical. As a result of the reverse acquisition resulting from the Merger, Viveve, Inc. is considered the accounting acquirer in the Merger and the assets and liabilities and the historical operations that are reflected in our consolidated financial statements are those of Viveve, Inc. Therefore, the historical financial data of Viveve, Inc. is deemed to be our historical financial data.

REVERSE STOCK SPLITS

On September 23, 2014, immediately prior to the effective time of the Merger, PLC Systems, Inc. effected a 1 for 100 reverse stock split.

On July 22, 2015, we held our 2015 Annual and Special Meeting of Stockholders. At the meeting, the stockholders voted to approve a special resolution authorizing a share consolidation (reverse split) of our common stock at a ratio of up to 1 for 10, which ratio was to be determined by our board of directors, in its sole discretion, and effective as of a date no more than 12 months from the date of the meeting. On April 15, 2016, the Company effected a 1 for 8 reverse stock split of its common stock. On the effective date of the reverse stock split, (i) each 8 shares of outstanding common stock were reduced to 1 share of common stock; (ii) the number of shares of common stock into which each outstanding warrant or option to purchase common stock is exercisable were proportionately reduced on a 1 for 8 basis; and (iii) the exercise price of each outstanding warrant or option to purchase common stock was proportionately increased on a 1 for 8 basis. All of the share numbers, share prices, and exercise prices have been adjusted, on a retroactive basis, to reflect this 1 for 8 reverse stock split.

Except where otherwise indicated, all share and per share data in this prospectus and any accompanying prospectus supplement and any other offering materials reflect these reverse stock splits.

Change of Corporate Domicile

At the 2015 Annual and Special Meeting of Stockholders, the stockholders approved a special resolution authorizing a continuance of the Company from the Yukon Territory, Canada into the State of Delaware under the Delaware General Corporation Law (the “DGCL”) and the adoption of charter documents that comply with the DGCL in connection therewith (the “Continuance”), effective as of a date to be determined by the our board of directors, in its sole discretion, no more than 12 months from the date of the meeting. On May 9, 2016, the Company filed the necessary Application for Authorization to Continue into Another Jurisdiction and Statutory Declaration with the Yukon registrar. On May 10, 2016, the Company filed a Certificate of Conversion and Certificate of Incorporation with the Secretary of State of the State of Delaware to move its domicile from the Yukon Territory to Delaware.

Corporate Information

The address of our corporate headquarters is 150 Commercial Street, Sunnyvale, California 94086 and our telephone number is (408) 530-1900. Our website can be accessed at www.viveve.com. The information contained on or that may be obtained from our website is not, and shall not be deemed to be, a part of this prospectus. Our common stock, par value \$0.0001 per share, is currently traded on The Nasdaq Capital Market under the ticker symbol “VIVE”.

For a description of our business, financial condition, results of operations and other important information regarding us, we refer you to our filings with the SEC incorporated by reference in this prospectus. For instructions on how to find copies of these documents, see “Where You Can Find More Information.”

RISK FACTORS

Please see the risk factors set forth under the section titled “Risk Factors” in Part I, Item 1A of our Annual Report on Form 10-K and other filings we make with the SEC, which are incorporated by reference in this prospectus; subject to the amendments to such risk factors described below. Additional risk factors may be included in a prospectus supplement relating to a particular offering of securities. Before making an investment decision, you should carefully consider these risks as well as other information we include or incorporate by reference in this prospectus. The risks and uncertainties we have described are not the only ones we face. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our business operations. These risks could materially affect our business, results of operations or financial condition and cause the value of our securities to decline.

Performing clinical studies on, and collecting data from, the Viveve Treatment is inherently subjective, and we have limited data regarding the efficacy of the Viveve System. If future data is not positive or consistent with our prior experience, rates of physician adoption will likely be harmed.

We believe that in order to significantly grow our business, we will need to conduct future clinical studies of the effectiveness of the Viveve System. Clinical studies of vaginal laxity and sexual function are subject to a number of limitations. First, these studies do not involve objective standards for measuring the effectiveness of treatment. Subjective, patient reported outcomes are the most common method of evaluating effectiveness. As a result, clinical studies may conclude that a treatment is effective even in the absence of objective measures. Second, as with other non-invasive, energy-based devices, the effect of the Viveve Treatment varies from patient to patient and can be influenced by a number of factors, including the age, ethnicity and level of vaginal laxity and sexual function of the patient, among other things.

Current published studies of the Viveve System conducted in the U.S. and Japan have investigated the tissue-tightening effect of Viveve’s monopolar RF technology using single-arm studies where all patients enrolled in the trial received the same treatment without comparison to randomized, blinded or controlled trials. Clinical studies designed in a randomized, blinded and controlled fashion represent the gold-standard in clinical trial design, which most effectively assess the efficacy of a product or therapy versus a placebo group. Future clinical studies, which may be required to drive physician adoption or support regulatory clearance or approval, may require randomized, blinded and controlled trial designs. In the fourth quarter of 2014, we initiated a new randomized, blinded and sham-controlled clinical trial in Europe, Canada and Japan designed to demonstrate the efficacy of the Viveve Treatment versus a sham-controlled procedure for the treatment of vaginal laxity (the “OUS Clinical Trials”). A sham-controlled treatment or procedure refers to a procedure performed as a control and that is similar to the treatment or procedure under investigation without the key therapeutic element being investigated.

Additionally, we have not conducted any head-to-head clinical studies that compare results from treatment with the Viveve System to surgery or treatment with other therapies. Without head-to-head studies against competing alternative treatments, which we have no current plans to conduct, potential customers may not find clinical studies of our technology sufficiently compelling to purchase the Viveve System. If we decide to pursue additional studies in the future, such studies could be expensive and time consuming, and the data collected may not produce favorable or compelling results. If the results of such studies do not meet physicians’ expectations, the Viveve System may not become widely adopted, physicians may recommend alternative treatments for their patients, and our business may be harmed.

Our business is not currently profitable, and we may not be able to achieve profitability even if we are able to generate significant revenue.

As of December 31, 2015, we have incurred losses since inception of approximately \$48.5 million. In 2015, we incurred a loss of \$12.4 million and in 2014 a loss of \$6.2 million. Our loss for the six months ended June 30, 2016 was \$9.4 million. Even though our revenue may increase, we expect to incur significant additional losses while we grow and expand our business. We cannot predict if and when we will achieve profitability. Our failure to achieve and sustain profitability could negatively impact the market price of our common stock and may require us to seek additional financing for our business and/or refinance the terms of our credit facility. There are no assurances that we will be able to obtain any additional financing or refinancing or that any such financing or refinancing will be on terms that are favorable to us.

If we do not adhere to the financial covenants and payment obligations set forth in our debt obligations to Western Alliance Bank (the “Lender”), we will be in default of our Loan Agreement (defined below).

On June 20, 2016, we entered into a Loan and Security Agreement (the “Loan Agreement”) with the Lender, pursuant to which the Lender agreed to loan up to an aggregate of \$10 million, to the Company, payable in two tranches of \$7.5 million (the “Tranche 1 Term Loan”) and \$2.5 million (the “Tranche 2 Term Loan”, each of the Tranche 1 Term Loan and Tranche 2 Term Loan, individually, a “Term Loan” and collectively, the “Term Loans”), both of which were issued on June 20, 2016. The Tranche 1 Term Loan, including all unpaid principal and accrued interest, is due to be repaid on or before January 1, 2020 (the “Tranche 1 Maturity Date”) and the Tranche 2 Term Loan, including all unpaid principal and accrued interest, is due to be paid 29 months following the first Amortization Date (as defined below) of the Tranche 2 Term Loan (the “Tranche 2 Maturity Date”). Interest shall be payable monthly beginning on the first day of the first month following the funding date through the Amortization Date (as defined below) of each Term Loan, upon which payments of principal, together with applicable interest, shall be payable. “Amortization Date” means (i) with respect to the Tranche 1 Term Loan, July 1, 2017, and (ii) with respect to the Tranche 2 Term Loan, the thirteenth Payment Date following the funding date of the Tranche 2 Term Loan. “Payment Date” means the first calendar date of each month.

The Loan Agreement contains certain payment and financial covenants. If we fail to timely repay or satisfy the financial and other covenants, the entire outstanding balance of the Loan Agreement could become immediately due and payable at the option of the Lender. Any declaration of an event of default would significantly harm our business and prospectus and could cause the price of our common stock to decline.

The report of our independent registered public accounting firm on our 2015 consolidated financial statements contains a going concern modification, and we will need additional financing to execute our business plan, fund our operations and to continue as a going concern.

We have limited remaining funds to support our operations. We have prepared our consolidated financial statements for the fiscal years ended December 31, 2015 and on a going-concern basis, which contemplates the realization of assets and the satisfaction of liabilities in the normal course of business. The report of our independent registered public accounting firm included in our December 31, 2015 consolidated financial statements includes an explanatory paragraph stating that the recurring losses incurred from operations raise substantial doubt about our ability to continue as a going concern. During the fourth quarter of 2015, we received net proceeds of approximately \$5.4 million in the Private Placement. In addition to the proceeds received in connection with the Loan Agreement, during the second quarter of 2016 we closed a public offering pursuant to which we raised gross proceeds of approximately \$15.5 million. We expect to use those funds to pursue obtaining regulatory approval our business plan, but we will need to secure additional funds in order to fund our future operations. Failure to generate sufficient cash flows from operations, raise additional capital or reduce certain discretionary spending could have a material adverse effect on our ability to achieve our intended business objectives. While we expect to have adequate resources in order to operate our business through the next twelve months, our auditors may have doubt about our ability to continue as a going concern in future periods, and our financial statements relating to those periods may not be prepared on a going-concern basis based on any such doubts. In addition, if one or more of the risks discussed in these risk factors occur or our expenses exceed our expectations, we may be required to raise further additional funds sooner than anticipated. The inclusion of a going concern modification in our independent registered public accounting firm’s report for the year ended December 31, 2015, or in any future report, may materially and adversely affect our stock price or our ability to raise new capital.

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

If our stockholders sell substantial amounts of our common stock in the public market upon the expiration of any statutory holding period under Rule 144, or shares issued upon the exercise of outstanding options or warrants, it could create a circumstance commonly referred to as an “overhang” and, in anticipation of which, the market price of our common stock could fall. The existence of an overhang, whether or not sales have occurred or are occurring, also could make more difficult our ability 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.

In general, under Rule 144, a non-affiliated person who has held restricted shares of our common stock for a period of six months may sell into the market all of their shares, subject to the Company being current in our periodic reports filed with the Commission.

As of June 30, 2016, there were approximately 3,488,411 shares of common stock of the 10,642,409 shares issued and outstanding that could be sold pursuant to Rule 144, which estimate is based on a list provided to us by our transfer agent, 39,494 shares of restricted stock, 506,379 shares subject to outstanding warrants, 1,126,287 shares subject to outstanding options and an additional 134,015 shares reserved for future issuance under our Amended and Restated 2013 Stock Option and Incentive Plan, all of which will become eligible for sale in the public market to the extent permitted by any applicable vesting requirements or Rule 144 under the Securities Act.

We have the right to issue shares of preferred stock. If we were to issue preferred stock, it is likely to have rights, preferences and privileges that may adversely affect the common stock.

We are authorized to issue 10,000,000 shares of blank check preferred stock, with such rights, preferences and privileges as may be determined from time-to-time by our board of directors. Our board of directors is empowered, without stockholder approval, to issue preferred stock in one or more series, and to fix for any series the dividend rights, dissolution or liquidation preferences, redemption prices, conversion rights, voting rights, and other rights, preferences and privileges for the preferred stock. No shares of preferred stock are presently issued and outstanding and we have no plans to issue shares of preferred stock. The issuance of shares of preferred stock, depending on the rights, preferences and privileges attributable to the preferred stock, could adversely reduce the voting rights and powers of the common stock and the portion of the Company's assets allocated for distribution to common stockholders in a liquidation event, and could also result in dilution in the book value per share of the common stock we are offering. The preferred stock could also be utilized, under certain circumstances, as a method for raising additional capital or discouraging, delaying or preventing a change in control of the Company, to the detriment of the investors in the common stock offered hereby. We cannot assure you that we will not, under certain circumstances, issue shares of our preferred stock.

USE OF PROCEEDS

Unless we state otherwise in an accompanying prospectus supplement, we intend to use the net proceeds from the sale of the securities offered by us under this prospectus and any related prospectus supplement for general corporate purposes of the Company.

These purposes may include:

- sales and marketing expenses to support the commercialization of our products;
- clinical and regulatory expenses to expand global regulatory clearances and to conduct necessary clinical trials to support those applications, where applicable;
- research and development expenses related to potentially designing new treatment tips, enhancing the security of our products and to the development of a new cooling system to maintain compliance with potential changes in international environmental regulations; and
- for general corporate and working capital purposes.

When a particular series of securities is offered, the prospectus supplement relating to that series will set forth our intended use for the net proceeds we receive from the sale of the securities. Pending the application of the net proceeds, we may invest the proceeds in short-term, interest-bearing instruments or other investment-grade securities.

DILUTION

We will set forth in a prospectus supplement the following information regarding any material dilution of the equity interests of investors purchasing securities sold by the Company in an offering under this prospectus:

- the net tangible book value per share of our equity securities before and after the offering;
- the amount of the increase in such net tangible book value per share attributable to the cash payments made by purchases in the offering; and
- the amount of the immediate dilution from the public offering price which will be absorbed by such purchasers.

DESCRIPTION OF THE SECURITIES THAT MAY BE OFFERED

The following summary of the rights of our common stock and preferred stock is not complete and is subject to and qualified in its entirety by reference to our certificate of incorporation (the “Certificate of Incorporation”) and bylaws (the “DGCL bylaws”) prepared under the DGCL, copies of which are filed as exhibits to our registration statement on Form S-3, of which this prospectus forms a part. See “Where You Can Find More Information”.

Description of our Common Stock

We have authorized 75 million shares of common stock, par value \$0.0001 per share, and 10 million shares of preferred stock, par value \$0.0001 per share. As of October 3, 2016, we had 10,648,407 shares of common stock outstanding and held by approximately 595 stockholders of record. There are no shares of preferred stock outstanding.

Our authorized but unissued shares of common 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 or automated quotation system on which our securities may be listed or traded.

Holders of our common stock are entitled to such dividends as may be declared by our board of directors out of funds legally available for such purpose, subject to any preferential dividend rights of any then outstanding preferred stock. The shares of common stock are neither redeemable or convertible. Holders of common stock have no preemptive or subscription rights to purchase any of our securities.

Each holder of our common stock is entitled to one vote for each such share outstanding in the holder’s name. No holder of common stock is entitled to cumulate votes in voting for directors.

In the event of our liquidation, dissolution or winding up, the holders of our common stock are entitled to receive pro rata our assets which are legally available for distribution, after payments of all debts and other liabilities and subject to the prior rights of any holders of preferred stock then outstanding. All of the outstanding shares of our common stock are fully paid and non-assessable. The shares of common stock offered by this prospectus will also be fully paid and non-assessable.

Our common stock is listed on The Nasdaq Capital Market under the symbol “VIVE”. On October 3, 2016, the last sale price of our common stock was \$7.02 per share. The transfer agent and registrar for our common stock is VStock Transfer, LLC, 18 Lafayette Place, Woodmere, New York 11598.

Description of our Preferred Stock

Our board of directors is authorized, subject to any limitations prescribed by law, without further vote or action by our stockholders, to issue from time to time shares of preferred stock in one or more series. The directors may from time to time by resolution passed before the issue of any preferred stock of any particular series, fix or alter the dividend rights, dividend rate, conversion rights, voting rights, rights and terms of redemption (including sinking fund provisions), the redemption price or prices, and the liquidation preferences of any wholly unissued series of preferred stock, and the number of shares constituting any such series and the designation thereof, or any of them, and to increase or decrease the number of shares of any series subsequent to the issue of shares of that series, but not below the number of share of such series then outstanding.

Holders of preferred stock will be entitled, on the distribution of our assets or in the event of our liquidation, dissolution or winding-up, whether voluntary or involuntary, or on any other distribution of our assets among our stockholders for the purpose of winding-up our affairs, to receive before any distribution to be made to holders of common stock or any other shares of stock ranking junior to the preferred stock with respect to repayment of capital, the amount due to the holders of preferred stock in accordance with our Certificate of Incorporation with respect to each share of preferred stock held by them, together with all accrued and unpaid cumulative dividends, (if any and if preferential) thereon, and all declared and unpaid non-cumulative dividends (if any and if preferential) thereon.

Except for voting rights that may be attached to any series of the preferred stock by the directors, holders of preferred stock will not be entitled to vote at any meeting of our stockholders. Holders of preferred stock will be given notice of and be invited to attend meetings of our voting stockholders.

It is not possible to state the actual effect of the issuance of any shares of preferred stock upon the rights of holders of our common stock until the board of directors determines the specific rights of the holders of our preferred stock. However, the effects might include, among other things:

- impairing dividend rights of our common stock;
- diluting the voting power of our common stock;
- impairing the liquidation rights of our common stock; and
- delaying or preventing a change of control without further action by our stockholders.

Description of Warrants to Purchase Common Stock or Preferred Stock

We may issue warrants for the purchase of our common stock or preferred stock, which we refer to in this prospectus as “equity warrants”. As explained below, each equity warrant will entitle its holder to purchase our equity securities at an exercise price set forth in, or to be determined as set forth in, the related prospectus supplement. Equity warrants may be issued separately or together with equity securities. The equity warrants are to be issued under equity warrant agreements.

The particular terms of each issue of equity warrants and the equity warrant agreement relating to the equity warrants will be described in the applicable prospectus supplement, including, as applicable:

- the title of the equity warrants;
- the initial offering price;
- the aggregate number of equity warrants and the aggregate number of shares of the equity security purchasable upon exercise of the equity warrants;
- if applicable, the designation and terms of the equity securities with which the equity warrants are issued, and the number of equity warrants issued with each equity security;
- the date on which the right to exercise the equity warrants will commence and the date on which the right will expire;
- if applicable, the minimum or maximum number of the equity warrants that may be exercised at any one time;
- anti-dilution provisions of the equity warrants, if any;
- redemption or call provisions, if any, applicable to the equity warrants;
- any additional terms of the equity warrants, including terms, procedures and limitations relating to the exchange and exercise of the equity warrants; and
- the exercise price.

Holders of equity warrants will not be entitled, solely by virtue of being holders, to vote, to receive dividends, to receive notice as stockholders with respect to any meeting or written consent of stockholders for the election of directors or any other matter, or to exercise any rights whatsoever as a holder of the equity securities purchasable upon exercise of the equity warrants.

Description of Units

We may, from time to time, issue units comprised of one or more of the other securities described in this prospectus in any combination. A prospectus supplement will describe the specific terms of the units offered under that prospectus supplement, and any special considerations applicable to investing in those units. You must look at the applicable prospectus supplement and any applicable unit agreement for a full understanding of the specific terms of any units. We will incorporate by reference into the registration statement of which this prospectus is a part the form of unit agreement, including a form of unit certificate, if any, that describes the terms of the series of units we are offering before the issuance of the related series of units. While the terms we have summarized below will generally apply to any units that we may offer in the future under this prospectus, we will describe the particular terms of any series of units that we may offer in more detail in the applicable prospectus supplement and incorporated documents. The terms of any units offered under a prospectus supplement may differ from the terms described below.

General

We may issue units consisting of common stock, preferred stock, warrants or any combination thereof. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time, or at any time before a specified date.

We will describe in the applicable prospectus supplement and any incorporated documents the terms of the series of units, including the following:

- the designation and terms of the units and of the securities comprising the units, including whether and under what circumstances those securities may be held or transferred separately;
- any unit agreement under which the units will be issued; and
- any provisions for the issuance, payment, settlement, transfer, or exchange of the units or of the securities comprising the units.

The provisions described in this section, as well as those described under “Description of Common Stock,” “Description of Preferred Stock,” and “Description of Warrants” will apply to each unit and to any common stock, preferred stock, or warrant included in each unit, respectively.

Issuance in Series

We may issue units in such amounts and in such numerous distinct series as we determine.

Enforceability of Rights by Holders of Units

Each unit agent will act solely as our agent under the applicable unit agreement and will not assume any obligation or relationship of agency or trust with any holder of any unit. A single bank or trust company may act as unit agent for more than one series of units. A unit agent will have no duty or responsibility in case of any default by us under the applicable unit agreement or unit, including any duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of a unit, without the consent of the related unit agent or the holder of any other unit, may enforce by appropriate legal action its rights as holder under any security included in the unit.

Title

We, the unit agent, and any of their agents may treat the registered holder of any unit certificate as an absolute owner of the units evidenced by that certificate for any purposes and as the person entitled to exercise the rights attaching to the units so requested, despite any notice to the contrary.

Description of Subscription Rights

We may issue subscription rights to purchase common stock, preferred stock, or other securities. These subscription rights may be issued independently or together with any other security offered hereby and may or may not be transferable by the stockholder receiving the subscription rights in such offering. In connection with any offering of subscription rights, we may enter into a standby arrangement with one or more underwriters or other purchasers pursuant to which the underwriters or other purchasers may be required to purchase any securities remaining unsubscribed for after such offering.

The applicable prospectus supplement will describe the specific terms of any offering of subscription rights for which this prospectus is being delivered, including the following:

- the price, if any, for the subscription rights;
- the exercise price payable for each share of common stock, preferred stock, or other securities upon the exercise of the subscription rights;
- the number of subscription rights issued to each stockholder;
- the number and terms of the shares of common stock, preferred stock, or other securities which may be purchased per each subscription right;
- the extent to which the subscription rights are transferable;
- any other terms of the subscription rights, including the terms, procedures and limitations relating to the exchange and exercise of the subscription rights;
- the date on which the right to exercise the subscription rights shall commence, and the date on which the subscription rights shall expire;
- the extent to which the subscription rights may include an over-subscription privilege with respect to unsubscribed securities; and
- if applicable, the material terms of any standby underwriting or purchase arrangement entered into by us in connection with the offering of subscription rights.

The description in the applicable prospectus supplement of any subscription rights we offer will not necessarily be complete and will be qualified in its entirety by reference to the applicable subscription rights certificate, which will be filed with the SEC if we offer subscription rights. For more information on how you can obtain copies of any subscription rights certificate if we offer subscription rights, see “Where You Can Find More Information”. We urge you to read the applicable subscription rights certificate and any applicable prospectus supplement in their entirety.

Anti-Takeover Effect of Certain Charter and Bylaw Provisions

Following our change of domicile to Delaware, we are governed by our Certificate of Incorporation and DGCL bylaws prepared under the DGCL and approved by our stockholders at the Annual and Special Meeting of Stockholders held on July 22, 2015.

Effects of authorized but unissued common stock and blank check preferred stock. Our Certificate of Incorporation has been prepared to allow us to issue 75 million shares of common stock and 10 million shares of preferred stock. As discussed above as relates to our Certificate of Incorporation, the existence of authorized but unissued common stock and undesignated preferred stock may be to enable our board of directors to make more difficult or to discourage an attempt to obtain control of our Company by means of a merger, tender offer, proxy contest or otherwise, and thereby to protect the continuity of management. If, in the due exercise of its fiduciary obligations, the board of directors were to determine that a takeover proposal was not in our best interest, such shares could be issued by the board of directors without stockholder approval in one or more transactions that might prevent or render more difficult or costly the completion of the takeover transaction by diluting the voting or other rights of the proposed acquirer or insurgent stockholder group, by putting a substantial voting block in institutional or other hands that might undertake to support the position of the incumbent board of directors, by effecting an acquisition that might complicate or preclude the takeover, or otherwise.

Authority to call a special meeting of stockholders. Article I of our DGCL bylaws provide that special meetings of stockholders may be called at any time by the Chief Executive Officer, if one is elected, or, if there is no Chief Executive Officer, a President, or by the Board of Directors, or by any stockholder holding 25% or more of our issued and outstanding capital stock (on a fully-diluted basis). The requirement that a stockholder hold 25% or more of our issued and outstanding capital stock means that small stockholders will not have the power to call a special meeting to, for example, elect new directors.

Cumulative Voting. Our Certificate of Incorporation does not provide for cumulative voting in the election of directors which would allow holders of less than a majority of the stock to elect some directors.

PLAN OF DISTRIBUTION

We may offer and sell the securities in any one or more of the following ways:

- to or through underwriters, brokers or dealers;
- directly to one or more other purchasers;
- through a block trade in which the broker or dealer engaged to handle the block trade will attempt to sell the securities as agent, but may position and resell a portion of the block as principal to facilitate the transaction;
- through agents on a best-efforts basis;
- in “at the market” offerings, as defined in Rule 415 under the Securities Act, at negotiated prices, at prices prevailing at the time of sale or at prices related to such prevailing market prices, including sales made directly on The Nasdaq Capital Market or sales made through a market maker other than on an exchange or other similar offerings through sales agents; or
- otherwise through any other method permitted by applicable law or a combination of any of the above methods of sale.

In addition, we may enter into option, share lending or other types of transactions that require us to deliver shares of common stock to an underwriter, broker or dealer, who will then resell or transfer the shares of common stock under this prospectus. We may also enter into hedging transactions with respect to our securities. For example, we may:

- enter into transactions involving short sales of the shares of common stock by underwriters, brokers or dealers;
- sell shares of common stock short and deliver the shares to close out short positions;
- enter into option or other types of transactions that require the delivery of shares of common stock to an underwriter, broker or dealer, who will then resell or transfer the shares of common stock under this prospectus; or
- loan or pledge the shares of common stock to an underwriter, broker or dealer, who may sell the loaned shares or, in the event of default, sell the pledged shares.

We may enter into derivative transactions with third parties, or sell securities not covered by this prospectus to third parties in privately negotiated transactions. If the applicable prospectus supplement indicates, in connection with those derivatives, the third parties may sell securities covered by this prospectus and the applicable prospectus supplement, including in short sale transactions. If so, the third party may use securities pledged by or borrowed from us or others to settle those sales or to close out any related open borrowings of stock, and may use securities received from us in settlement of those derivatives to close out any related open borrowings of stock. The third party in such sale transactions will be an underwriter and, if not identified in this prospectus, will be identified in the applicable prospectus supplement (or a post-effective amendment). In addition, we may otherwise loan or pledge securities to a financial institution or other third party that in turn may sell the securities short using this prospectus. Such financial institution or other third party may transfer its economic short position to investors in our securities or in connection with a concurrent offering of other securities.

Each time we sell securities, we will provide a prospectus supplement that will name any underwriter, dealer or agent involved in the offer and sale of the securities. Any prospectus supplement will also set forth the terms of the offering, including:

- the purchase price of the securities and the proceeds we will receive from the sale of the securities;
- any underwriting discounts and other items constituting underwriters' compensation;
- any public offering or purchase price and any discounts or commissions allowed or re-allowed or paid to dealers;
- any commissions allowed or paid to agents;
- any other offering expenses;
- any securities exchanges on which the securities may be listed;
- the method of distribution of the securities;
- the terms of any agreement, arrangement or understanding entered into with the underwriters, brokers or dealers; and
- any other information we think is important.

If underwriters or dealers are used in the sale, the securities will be acquired by the underwriters or dealers for their own account. The securities may be sold from time to time by us in one or more transactions:

- at a fixed price or prices, which may be changed;
- at market prices prevailing at the time of sale;
- at prices related to such prevailing market prices;
- at varying prices determined at the time of sale; or
- at negotiated prices.

Such sales may be effected:

- in transactions on any national securities exchange or quotation service on which the securities may be listed or quoted at the time of sale;
- in transactions in the over-the-counter market;
- in block transactions in which the broker or dealer so engaged will attempt to sell the securities as agent but may position and resell a portion of the block as principal to facilitate the transaction, or in crosses, in which the same broker acts as an agent on both sides of the trade;
- through the writing of options; or
- through other types of transactions.

The securities may be offered to the public either through underwriting syndicates represented by one or more managing underwriters or directly by one or more of such firms. Unless otherwise set forth in the prospectus supplement, the obligations of underwriters or dealers to purchase the securities offered will be subject to certain conditions precedent and the underwriters or dealers will be obligated to purchase all the offered securities if any are purchased. Any public offering price and any discount or concession allowed or reallocated or paid by underwriters or dealers to other dealers may be changed from time to time.

The securities may be sold directly by us or through agents designated by us from time to time. Any agent involved in the offer or sale of the securities in respect of which this prospectus is delivered will be named, and any commissions payable to such agent will be set forth in, the prospectus supplement. Unless otherwise indicated in the prospectus supplement, any such agent will be acting on a best efforts basis for the period of its appointment.

Offers to purchase the securities offered by this prospectus may be solicited, and sales of the securities may be made by us directly to institutional investors or others, who may be deemed to be underwriters within the meaning of the Securities Act with respect to any resale of the securities. The terms of any offer made in this manner will be included in the prospectus supplement relating to the offer.

Some of the underwriters, dealers or agents used by us in any offering of securities under this prospectus may be customers of, engage in transactions with, and perform services for us or affiliates of ours in the ordinary course of business. Underwriters, dealers, agents and other persons may be entitled to indemnification against and contribution toward certain civil liabilities, including liabilities under the Securities Act, and to be reimbursed for certain expenses.

Subject to any restrictions relating to debt securities in bearer form, any securities initially sold outside the United States may be resold in the United States through underwriters, dealers or otherwise.

Any underwriters to which offered securities are sold by us for public offering and sale may engage in transactions that stabilize, maintain or otherwise affect the price of the common shares during and after this offering, but those underwriters will not be obligated to do so and may discontinue any market making at any time. Specifically, the underwriters may over-allot or otherwise create a short position in the common shares for their own accounts by selling more common stock than have been sold to them by us. The underwriters may elect to cover any such short position by purchasing common stock in the open market or by exercising the over-allotment option granted to the underwriters. In addition, the underwriters may stabilize or maintain the price of the common stock by bidding for or purchasing common stock in the open market and may impose penalty bids. If penalty bids are imposed, selling concessions allowed to syndicate members or other broker-dealers participating in the offering are reclaimed if common stock previously distributed in the offering are repurchased, whether in connection with stabilization transactions or otherwise. The effect of these transactions may be to stabilize or maintain the market price of the common stock at a level above that which might otherwise prevail in the open market. The imposition of a penalty bid may also affect the price of the common stock to the extent that it discourages resales of the common stock. The magnitude or effect of any stabilization or other transactions is uncertain. These transactions may be effected on The Nasdaq Capital Market or otherwise and, if commenced, may be discontinued at any time.

In connection with this offering, the underwriters and selling group members may also engage in passive market making transactions in our common stock. Passive market making consists of displaying bids on The Nasdaq Capital Market limited by the prices of independent market makers and effecting purchases limited by those prices in response to order flow. Rule 103 of Regulation M promulgated by the SEC limits the amount of net purchases that each passive market maker may make and the displayed size of each bid. Passive market making may stabilize the market price of the common shares at a level above that which might otherwise prevail in the open market and, if commenced, may be discontinued at any time.

We are subject to the applicable provisions of the Exchange Act and the rules and regulations under the Exchange Act, including Regulation M. This regulation may limit the timing of purchases and sales of any of the shares of common stock offered in this prospectus by any person. The anti-manipulation rules under the Exchange Act may apply to sales of shares in the market and to the activities of us.

The anticipated date of delivery of the securities offered by this prospectus will be described in the applicable prospectus supplement relating to the offering.

Any broker-dealer participating in the distribution of the shares of common stock may be deemed to be an “underwriter” within the meaning of the Securities Act with respect to any securities such entity sells pursuant to this prospectus.

To comply with the securities laws of some states, if applicable, the securities may be sold in these jurisdictions only through registered or licensed brokers or dealers. In addition, in some states the securities may not be sold unless they have been registered or qualified for sale or an exemption from registration or qualification requirements is available and is complied with.

LEGAL MATTERS

The validity of the issuance of the securities offered hereby will be passed upon for us by Mitchell Silberberg & Knupp LLP, 12 East 49th Street, 30th Floor, New York, New York 10017.

EXPERTS

The consolidated financial statements of Viveve Medical, Inc. as of December 31, 2015 and 2014 and for each of the two years in the period ended December 31, 2015 incorporated in this prospectus by reference to the Registration Statement (No. 333-210816) on Form S-1 of Viveve Medical, Inc. and incorporated in this prospectus by reference to the Annual Report on Form 10-K for the year ended December 31, 2015 have been so included in reliance on the reports (which contain an explanatory paragraph relating to the Company’s ability to continue as a going concern as described in Note 1 to the consolidated financial statements) of Burr Pilger Mayer, Inc., an independent registered public accounting firm, given the authority of said firm as experts in auditing and accounting.

WHERE YOU CAN FIND MORE INFORMATION

We have filed with the SEC a registration statement on Form S-3 under the Securities Act, with respect to the securities covered by this prospectus. This prospectus, which is a part of the registration statement, does not contain all of the information set forth in the registration statement or the exhibits and schedules filed therewith. For further information with respect to us and the securities covered by this prospectus, please see the registration statement and the exhibits filed with the registration statement. A copy of the registration statement and the exhibits filed with the registration statement may be inspected without charge at the Public Reference Room maintained by the SEC, located at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for more information about the operation of the Public Reference Room. The SEC also maintains an Internet website that contains reports, proxy and information statements and other information regarding registrants that file electronically with the SEC. The address of the website is <http://www.sec.gov>.

We are subject to the information and periodic reporting requirements of the Exchange Act and, in accordance therewith, we file periodic reports, proxy statements and other information with the SEC. Such periodic reports, proxy statements and other information are available for inspection and copying at the Public Reference Room and website of the SEC referred to above. We maintain a website at www.viveve.com. You may access 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 pursuant to Sections 13(a) or 15(d) of the Exchange Act with the SEC free of charge at our website as soon as reasonably practicable after such material is electronically filed with, or furnished to, the SEC. Our website and the information contained on that site, or connected to that site, are not incorporated into and are not a part of this prospectus.

INFORMATION INCORPORATED BY REFERENCE

The SEC and applicable law permits us to “incorporate by reference” into this prospectus information that we have or may in the future file with or furnish to the SEC. This means that we can disclose important information by referring you to those documents. You should read carefully the information incorporated herein by reference because it is an important part of this prospectus. We hereby incorporate by reference the following documents into this prospectus:

- (a) The Company’s latest prospectus included in the registration statement on Form S-1 (File No. 333-210816) (as amended, “Form S-1”) initially filed with the SEC on April 19, 2016, which contains audited financial statements for the Company’s latest fiscal year ended December 31, 2015;
- (b) The Company’s latest Annual Report on Form 10-K for the fiscal year ended December 31, 2015, as filed with the SEC on March 24, 2016;
- (c) The Company’s Quarterly Reports on Form 10-Q for the quarterly periods ended March 31, 2016 and June 30, 2016, as filed with the SEC on May 13, 2016 and August 11, 2016, respectively;
- (d) The Company’s Current Reports on Form 8-K as filed with the SEC on February 2, 2016, March 18, 2016, April 14, 2016, April 19, 2016, June 14, 2016, June 21, 2016, July 12, 2016, August 24, 2016 and September 15, 2016 (other than any reports or portions thereof that are furnished under Item 2.02 or Item 7.01 and any exhibits included with such Items); and
- (e) The description of the common stock contained in the Company’s registration statement on Form 8-A filed with the SEC on June 13, 2016, including any amendment or report filed for the purpose of updating such description.

Additionally, all documents filed by us with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act (other than any portions of filings that are furnished rather than filed pursuant to Items 2.02 and 7.01 of a Current Report on Form 8-K), after the date of this prospectus and before the termination or completion of this offering (including all such documents filed with the SEC after the date of the initial registration statement and prior to the effectiveness of the registration statement) shall be deemed to be incorporated by reference into this prospectus from the respective dates of filing of such documents. Any information that we subsequently file with the SEC that is incorporated by reference as described above will automatically update and supersede any previous information that is part of this prospectus.

Upon written or oral request, we will provide you without charge, a copy of any or all of the documents incorporated by reference, other than exhibits to those documents unless the exhibits are specifically incorporated by reference in the documents. Please send requests to Mr. Scott Durbin, our Chief Financial Officer, at Viveve Medical, Inc., 150 Commercial Street, Sunnyvale, California 94086; Tel: (408)-530-1900; e-mail: sdurbin@viveve.com.

**DISCLOSURE OF COMMISSION POSITION ON INDEMNIFICATION
FOR SECURITIES ACT LIABILITIES**

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or persons controlling the Company, we have been informed that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

PROSPECTUS

\$50,000,000



Common Stock
Preferred Stock
Warrants
Units

We may from time to time issue, in one or more series or classes, up to \$50,000,000 in aggregate principal amount of our common stock, preferred stock, warrants and/or units in one or more offerings. We may offer these securities separately or together in units. We will specify in the accompanying prospectus supplement the terms of the securities being offered. We may sell these securities to or through underwriters and also to other purchasers or through agents. We will set forth the names of any underwriters or agents, and any fees, conversions or discount arrangements, in the accompanying prospectus supplement. We may not sell any securities under this prospectus without delivery of the applicable prospectus supplement.

You should read this document and any prospectus supplement or amendment carefully before you invest in our securities.

Our common stock is listed on The Nasdaq Capital Market under the symbol "VIVE." On November 7, 2017, the closing price for our common stock, as reported on The Nasdaq Capital Market, was \$5.63 per share. Our principal executive office is located at 345 Inverness Drive South, Building B, Suite 250, Englewood, Colorado 80112.

Investing in our securities involves a high degree of risk. You should review carefully the risks and uncertainties referenced under the heading "Risk Factors" contained in this prospectus beginning on page 2 and any applicable prospectus supplement, and under similar headings in the other documents that are incorporated by reference into this prospectus.

This prospectus may not be used to offer or sell securities unless accompanied by a prospectus supplement.

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

The date of this Prospectus is November 28, 2017.

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the United States Securities and Exchange Commission (the “SEC”), using a “shelf” registration process. Under this shelf registration process, we may from time to time sell any combination of the securities described in this prospectus in one or more offerings up to a total amount of \$50,000,000.

This prospectus provides you with a general description of the securities we may offer. Each time we sell securities, we will provide one or more prospectus supplements that will contain specific information about the terms of the offering. The prospectus supplement may also add, update or change information contained in this prospectus. You should read both this prospectus and the accompanying prospectus supplement together with the additional information described under the heading “Where You Can Find More Information” beginning on page 23 of this prospectus.

You should rely only on the information contained in or incorporated by reference in this prospectus, any accompanying prospectus supplement or in any related free writing prospectus filed by us with the SEC. We have not authorized anyone to provide you with different information. This prospectus and the accompanying prospectus supplement do not constitute an offer to sell or the solicitation of an offer to buy any securities other than the securities described in the accompanying prospectus supplement or an offer to sell or the solicitation of an offer to buy such securities in any circumstances in which such offer or solicitation is unlawful. You should assume that the information appearing in this prospectus, any prospectus supplement, the documents incorporated by reference and any related free writing prospectus is accurate only as of their respective dates. Our business, financial condition, results of operations and prospects may have changed materially since those dates.

Unless the context otherwise indicates, references in this prospectus to “Viveve,” the “Company,” “we,” “us,” and “our” refer, collectively, to Viveve Medical, Inc., a Delaware corporation, and its subsidiaries.

RISK FACTORS

Investing in our securities involves a high degree of risk. You should carefully consider the risks referenced below and described in the documents incorporated by reference in this prospectus and any prospectus supplement, as well as other information we include or incorporate by reference into this prospectus and any applicable prospectus supplement, before making an investment decision. Our business, financial condition or results of operations could be materially adversely affected by the materialization of any of these risks. The trading price of our securities could decline due to the materialization of any of these risks, and you may lose all or part of your investment. This prospectus and the documents incorporated herein by reference also contain forward-looking statements that involve risks and uncertainties. Actual results could differ materially from those anticipated in these forward-looking statements as a result of certain factors, including the risks referenced below and described in the documents incorporated herein by reference, including (i) our annual report on Form 10-K for the fiscal year ended December 31, 2016, which is on file with the SEC and is incorporated herein by reference, (ii) our quarterly reports on Form 10-Q for the quarters ended March 31, 2017, June 30, 2017, and September 30, 2017, which are incorporated by reference into this prospectus, and (iii) other documents we file with the SEC that are deemed incorporated by reference into this prospectus.

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This prospectus, including the documents that we incorporate by reference, may contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended (the “**Securities Act**”), and Section 21E of the Securities Exchange Act of 1934, as amended (the “**Exchange Act**”).

Forward-looking statements in this prospectus and any accompanying prospectus supplement give our current expectations or forecasts of future events. You can identify these statements by the fact that they do not relate strictly to historical or current facts. You can find many (but not all) of these statements by looking for words such as “approximates,” “believes,” “hopes,” “expects,” “anticipates,” “estimates,” “projects,” “intends,” “plans,” “would,” “should,” “could,” “may” or other similar expressions in this prospectus and any prospectus supplement. In particular, forward-looking statements include statements relating to future actions, prospective products and applications, customers, technologies, future performance or future financial results. These forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ materially from our historical experience and our present expectations or projections. Factors that could cause actual results to differ from those discussed in the forward-looking statements include, but are not limited to:

- our limited cash and our history of losses;
- our ability to achieve profitability;
- our limited operating history;
- emerging competition and rapidly advancing technology;
- whether we are successful in having our medical device approved for sale by the U.S. Food and Drug Administration (the “**FDA**”) or by foreign regulatory authorities for all indications;
- whether demand develops for our medical device;
- the impact of competitive or alternative products, technologies and pricing;
- the adequacy of protections afforded to us by the patents that we own and the cost to us of maintaining, enforcing and defending those patents;
- our ability to obtain, expand and maintain patent protection in the future, and to protect our non-patented intellectual property;
- our exposure to and ability to defend third-party claims and challenges to our patents and other intellectual property rights;
- our ability to obtain adequate financing in the future, as and when we need it;
- our ability to continue as a going concern;
- our success at managing the risks involved in the foregoing items; and
- other factors discussed in this prospectus.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. The forward-looking statements are based upon management’s beliefs and assumptions and are made as of the date of this prospectus. We undertake no obligation to publicly update or revise any forward-looking statements included in this prospectus to conform such statements to actual results or changes in our expectations. You should not place undue reliance on these forward-looking statements.

THE COMPANY

Viveve designs, develops, manufactures and markets a medical device for the non-invasive treatment of vaginal introital laxity, for improved sexual function, for vaginal rejuvenation, and for use in general surgery for electrocoagulation and hemostasis, depending on the relevant country-specific clearance or approval, that we refer to as Geneveve. Women can develop vaginal laxity for a number of reasons, including aging, genetic predisposition, lifestyle, and/or the trauma of natural childbirth. Vaginal laxity can often cause decreased sexual function and satisfaction in women, yet most surveyed physicians who practice obstetrics and gynecology (“OB/GYN”) and urogynecologists recognize that it is an underreported, yet bothersome, medical condition that impacts relationship happiness as well as sexual function. Currently, few medical treatments are available to effectively treat vaginal laxity. The most widely prescribed treatments include Kegel exercises, although, to our knowledge, there is no validated evidence indicating that Kegel exercises improve vaginal laxity, and surgical procedures, which are not only invasive and expensive but sometimes lead to worse outcomes as a result of scarring. At this time, our products are indicated for use in general surgical procedures for electrocoagulation and hemostasis in the United States, and the device has not been cleared or approved for use for the treatment of vaginal laxity, to improve sexual function, or for vaginal rejuvenation in the United States. Accordingly, the Company is prohibited under U.S. regulations from promoting it to physicians or consumers for these unapproved or off-label uses.

Geneveve is a non-invasive solution for vaginal laxity which includes three major components: the Viveve System (an RF, or radio frequency, generator housed in a table-top console), a reusable handpiece and a single-use treatment tip, as well as several other consumable accessories. Physicians attach the single-use treatment tip to the handpiece, which is connected to the console. The generator authenticates the treatment tip and programs the system for the desired treatment without further physician intervention. The treatment is performed in a physician’s office, in less than 30 minutes, and does not require the use of anesthesia. The tissue tightening effect resulting from Geneveve has been demonstrated by our pre-clinical and clinical research.

We believe that Geneveve provides a number of benefits for physicians and patients, including:

- a non-invasive, non-ablative alternative to surgery with no identified safety issues to date;
- the requirement of only a single treatment;
- compelling physician economics; and
- ease of use.

Currently, our products are cleared for marketing in 60 countries throughout the world under the following indications for use:

| Indication for Use: | No. of Countries: |
|--|------------------------|
| General surgical procedures for electrocoagulation and hemostasis | 3 (including the U.S.) |
| Treatment of vaginal laxity | 41 |
| Treatment of the vaginal introitus, after vaginal childbirth, to improve sexual function | 15 |
| Vaginal rejuvenation | 1 |

In the U.S., Geneveve FDA-cleared indication is for use in general surgical procedures for coagulation and hemostasis and we market and sell through a direct sales force. Outside the U.S., we market and sell through an extensive network of distribution partners.

Our goal is to become the leading provider of non-invasive solutions to treat vaginal laxity by:

- *Increasing the Installed Base of Viveve Systems.* In our existing markets, we plan to (i) expand the number of Viveve Systems from our initial base of early adopters by leveraging our current and future clinical study results and through innovative marketing programs directed at both physicians and patients, where permissible by law, and (ii) expand our efforts and obtain regulatory approvals in additional markets, although there are no assurances that we will ever receive such approvals.

- *Driving Increased Treatment Tip Usage.* We work collaboratively with our physician customer base to increase treatment tip usage by enhancing customer awareness and facilitating the marketing efforts of our physician customers to their patients, where permissible by law. We intend to launch innovative marketing programs with physician customers to develop a profitable Geneveve practice, where permissible by law.
- *Broadening Our Physician Customer Base.* While our initial focus is on marketing our procedure to the OB/GYN specialty, we intend to selectively expand our sales efforts into other physician specialties, such as plastic surgery, dermatology, urology, urogynecology, general surgery and family practice. Additionally, we intend to pursue sales from physician-directed medi-spas with track records of safe and successful aesthetic treatments.
- *Developing New Treatment Tips and System Enhancements.* We intend to continue to expand our line of treatment tips to allow for even shorter procedure times to benefit both physicians and patients. We also plan to pursue potential system modifications and next generation enhancements that will further increase the ease-of-use of Geneveve.
- *Investing in Intellectual Property and Patent Protection.* We will continue to invest in expanding our intellectual property portfolio, and we intend to file for additional patents to strengthen our intellectual property rights.

Through September 30, 2017, we have sold 364 Viveve Systems and approximately 12,250 single-use treatment tips.

Corporate Information

The address of our corporate headquarters is 345 Inverness Drive South, Building B, Suite 250, Englewood, Colorado 80112, and our telephone number is (720) 696-8100. Our website can be accessed at www.viveve.com. The information contained on, or that may be obtained from, our website is not a part of this prospectus.

“Geneveve” and our logo are our trademarks. All other service marks, trademarks and trade names appearing in this prospectus are the property of their respective owners. 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, these other companies.

Merger with PLC Systems, Inc.

On September 23, 2014, Viveve Medical, Inc. (formerly PLC Systems, Inc.), a Delaware corporation (“**Viveve Medical**”) completed a reverse acquisition and recapitalization pursuant to the terms and conditions of an Agreement and Plan of Merger (the “Merger Agreement”) by and among PLC Systems Acquisition Corp., a wholly owned subsidiary of PLC Systems Inc., with and into Viveve, Inc., a Delaware corporation (the “**Merger**”). In conjunction with the Merger, we changed our name from PLC Systems Inc. to Viveve Medical, Inc. to better reflect our new business. Viveve Medical competes in the women’s health industry by marketing the Geneveve product as a way to improve the overall sexual well-being and quality of life of women experiencing vaginal laxity, depending on the relevant country-specific clearance or approval.

Reverse Stock Splits

On September 23, 2014, immediately prior to the effective time of the Merger, PLC Systems, Inc. effected a 1-for-100 reverse stock split.

On July 22, 2015, we held our 2015 Annual and Special Meeting of Stockholders. At the meeting, the stockholders voted to approve a special resolution authorizing a share consolidation (reverse split) of our common stock at a ratio of up to 1-for-10, which ratio was to be determined by the Board of Directors of Viveve Medical (the “**Board**”), in its sole discretion, and effective as of a date no more than 12 months from the date of the meeting. On April 15, 2016, we effected a 1-for-8 reverse stock split of our common stock. On the effective date of the reverse stock split, (i) each 8 shares of outstanding common stock were reduced to 1 share of common stock; (ii) the number of shares of common stock into which each outstanding warrant or option to purchase common stock was exercisable were proportionately reduced on a 1-for-8 basis; and (iii) the exercise price of each outstanding warrant or option to purchase common stock was proportionately increased on a 1-for-8 basis. All of the share numbers, share prices, and exercise prices have been adjusted, on a retroactive basis, to reflect this 1-for-8 reverse stock split (collectively, the “**Stock Split**”).

Except where otherwise indicated, all share and per share data in this prospectus and any accompanying prospectus supplement and any other offering materials reflect these reverse stock splits.

Change of Corporate Domicile

At the 2015 Annual and Special Meeting of Stockholders, the stockholders approved a special resolution authorizing a continuance of the Company from the Yukon Territory, Canada into the State of Delaware under the Delaware General Corporation Law (the “**DGCL**”) and the adoption of charter documents that comply with the DGCL in connection therewith (the “**Continuance**”), effective as of a date to be determined by the Board, in its sole discretion, no more than twelve months from the date of the meeting. On May 9, 2016, the Company filed the necessary Application for Authorization to Continue into Another Jurisdiction and Statutory Declaration with the Yukon registrar. On May 10, 2016, the Company filed a Certificate of Conversion and Certificate of Incorporation with the Secretary of State of the State of Delaware to move its domicile from the Yukon Territory to Delaware.

USE OF PROCEEDS

We intend to use the net proceeds from the sale of any securities offered under this prospectus for general corporate purposes unless otherwise indicated in the applicable prospectus supplement. General corporate purposes may include research and development and clinical development costs to support the advancement of our product candidates and the expansion of our product candidate pipeline; repayment and refinancing of debt; working capital; and capital expenditures. We may also use a portion of the net proceeds to acquire or invest in businesses, products and technologies that are complementary to our own, although we have no commitments or agreements with respect to any acquisitions as of the date of this prospectus. Pending these uses, we may invest the net proceeds in a variety of capital preservation instruments, including short-term, investment-grade, interest-bearing instruments and U.S. government securities, or may hold such proceeds as cash, until they are used for their stated purpose. We have not determined the amount of net proceeds to be used specifically for such purposes. As a result, management will retain broad discretion over the allocation of net proceeds.

SECURITIES WE MAY OFFER

This prospectus contains summary descriptions of the securities we may offer from time to time. These summary descriptions are not meant to be complete descriptions of each security. The particular terms of any security will be described in the applicable prospectus supplement.

DESCRIPTION OF CAPITAL STOCK

The following description of our common stock and preferred stock, together with the additional information we include in any applicable prospectus supplements, summarizes the material terms and provisions of the common stock and preferred stock that we may offer under this prospectus. The following description of our capital stock does not purport to be complete and is subject to, and qualified in its entirety by, our certificate of incorporation and bylaws, which are exhibits to the registration statement of which this prospectus forms a part, and by applicable law. The terms of our common stock and preferred stock may also be affected by Delaware law.

Authorized Capital Stock

Our authorized capital stock consists of 75,000,000 shares of common stock, par value \$0.0001 per share, and 10,000,000 shares of preferred stock, par value \$0.0001 per share, all of which are undesignated preferred stock. As of November 7, 2017, we had 19,426,415 shares of common stock outstanding and no shares of preferred stock outstanding.

Common Stock

The holders of our common stock are entitled to one vote for each share held on all matters submitted to a vote of the stockholders. The holders of our common stock do not have any cumulative voting rights. Holders of our common stock are entitled to receive ratably any dividends declared by our board of directors out of funds legally available for that purpose, subject to any preferential dividend rights of any outstanding preferred stock. Our common stock has no preemptive rights, conversion rights or other subscription rights or redemption or sinking fund provisions.

In the event of our liquidation, dissolution or winding up, holders of our common stock will be entitled to share ratably in all assets remaining after payment of all debts and other liabilities and any liquidation preference of any outstanding preferred stock. All outstanding shares are fully paid and nonassessable.

When we issue shares of common stock under this prospectus, the shares will fully be paid and nonassessable and will not have, or be subject to, any preemptive or similar rights.

Undesignated Preferred Stock

Our board of directors is authorized to issue up to 10,000,000 shares of undesignated preferred stock in one or more series without stockholder approval. Our board of directors may determine the rights, preferences, privileges and restrictions, including voting rights, dividend rights, conversion rights, redemption privileges and liquidation preferences, of each series of preferred stock.

The purpose of authorizing our board of directors to issue preferred stock in one or more series and determine the number of shares in the series and its rights and preferences is to eliminate delays associated with a stockholder vote on specific issuances. Examples of rights and preferences that the Board may fix are:

- dividend rights;
- conversion rights;
- voting rights;
- terms of redemption;
- liquidation preferences;
- sinking fund terms; and
- the number of shares constituting, or the designation of, such series, any or all of which may be greater than the rights of common stock.

The existence of authorized but unissued shares of undesignated preferred stock may enable our board of directors to render more difficult or to discourage an attempt to obtain control of us by means of a merger, tender offer, proxy contest or otherwise. For example, if in the due exercise of its fiduciary obligations, our board of directors were to determine that a takeover proposal is not in the best interests of us or our stockholders, our board of directors could cause shares of preferred stock to be issued without stockholder approval in one or more private offerings or other transactions that might dilute the voting or other rights of the proposed acquirer, stockholder or stockholder group. The rights of holders of our common stock described above, will be subject to, and may be adversely affected by, the rights of any preferred stock that we may designate and issue in the future. The issuance of shares of undesignated preferred stock could decrease the amount of earnings and assets available for distribution to holders of shares of common stock. The issuance may also adversely affect the rights and powers, including voting rights, of these holders and may have the effect of delaying, deterring or preventing a change in control of us.

We will incorporate by reference as an exhibit to the registration statement, which includes this prospectus, the form of any certificate of designation that describes the terms of the series of preferred stock we are offering. This description and the applicable prospectus supplement will include:

- the title and stated value;
- the number of shares authorized;
- the liquidation preference per share;
- the purchase price;
- the dividend rate, period and payment date, and method of calculation for dividends;
- whether dividends will be cumulative or non-cumulative and, if cumulative, the date from which dividends will accumulate;
- the procedures for any auction and remarketing, if any;
- the provisions for a sinking fund, if any;
- the provisions for redemption or repurchase, if applicable, and any restrictions on our ability to exercise those redemption and repurchase rights;
- any listing of the preferred stock on any securities exchange or market;
- whether the preferred stock will be convertible into our common stock, and, if applicable, the conversion price, or how it will be calculated, and the conversion period;
- whether the preferred stock will be exchangeable into debt securities, and, if applicable, the exchange price, or how it will be calculated, and the exchange period;
- voting rights, if any, of the preferred stock;
- preemptive rights, if any;
- restrictions on transfer, sale or other assignment, if any;
- whether interests in the preferred stock will be represented by depositary shares;
- a discussion of any material United States federal income tax considerations applicable to the preferred stock;
- the relative ranking and preferences of the preferred stock as to dividend rights and rights if we liquidate, dissolve or wind up our affairs;
- any limitations on issuance of any class or series of preferred stock ranking senior to or on a parity with the series of preferred stock as to dividend rights and rights if we liquidate, dissolve or wind up our affairs; and
- any other specific terms, preferences, rights or limitations of, or restrictions on, the preferred stock.

When we issue shares of preferred stock under this prospectus, the shares will fully be paid and nonassessable and will not be subject to any preemptive or similar rights.

Antitakeover Effects of Delaware Law and Provisions of our Restated Certificate of Incorporation and Amended and Restated Bylaws

Certain provisions of the Delaware General Corporation Law and of our restated certificate of incorporation and amended and restated bylaws could have the effect of delaying, deferring or discouraging another party from acquiring control of us unless such takeover or change of control is approved by the board of directors. These provisions, which are summarized below, are expected to discourage certain types of coercive takeover practices and inadequate takeover bids and, as a consequence, they might also inhibit temporary fluctuations in the market price of our common stock that often result from actual or rumored hostile takeover attempts. These provisions are also designed in part to encourage anyone seeking to acquire control of us to first negotiate with our board of directors. These provisions might also have the effect of preventing changes in our management. It is possible that these provisions could make it more difficult to accomplish transactions that stockholders might otherwise deem to be in their best interests. However, we believe that the advantages gained by protecting our ability to negotiate with any unsolicited and potentially unfriendly acquirer outweigh the disadvantages of discouraging such proposals, including those priced above the then-current market value of our common stock, because, among other reasons, the negotiation of such proposals could improve their terms.

Delaware Takeover Statute

We are subject to the provisions of Section 203 of the Delaware General Corporation Law. In general, Section 203 prohibits a publicly held Delaware corporation from engaging in a “business combination” with an “interested stockholder” for a three-year period following the time that this stockholder becomes an interested stockholder, unless the business combination is approved in a prescribed manner. Under Section 203, a business combination between a corporation and an interested stockholder is prohibited unless it satisfies one of the following conditions:

- before the stockholder became interested, our board of directors approved either the business combination or the transaction which resulted in the stockholder becoming an interested stockholder;
- upon consummation of 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 voting stock outstanding, shares owned by persons who are directors and also officers, and employee stock plans, in some instances, but not the outstanding voting stock owned by the interested stockholder; or
- at or after the time the stockholder became interested, the business combination was approved by our board of directors and authorized at an annual or special meeting of the stockholders by the affirmative vote of at least two-thirds 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, lease, pledge, exchange, mortgage 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;
- subject to exceptions, any transaction involving the corporation that has the effect of increasing the proportionate share of the stock of any class or series of the corporation beneficially owned by the interested stockholder; or
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits 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.

Provisions of our Restated Certificate of Incorporation and Amended and Restated Bylaws

Our restated certificate of incorporation and amended and restated bylaws include a number of provisions that may have the effect of delaying, deferring or discouraging another party from acquiring control of us and encouraging persons considering unsolicited tender offers or other unilateral takeover proposals to negotiate with our board of directors rather than pursue non-negotiated takeover attempts. These provisions include the items described below.

Board composition and filling vacancies. In accordance with our restated certificate of incorporation, our board is divided into three classes serving staggered three-year terms, with one class being elected each year. Our restated certificate of incorporation also provides that directors may be removed only for cause and then only by the affirmative vote of the holders of 75% or more of the shares then entitled to vote at an election of directors. Furthermore, any vacancy on our board of directors, however occurring, including a vacancy resulting from an increase in the size of our board, may only be filled by the affirmative vote of a majority of our directors then in office even if less than a quorum.

No written consent of stockholders. Our restated certificate of incorporation provides that all stockholder actions are required to be taken by a vote of the stockholders at an annual or special meeting, and that stockholders may not take any action by written consent in lieu of a meeting. This limit may lengthen the amount of time required to take stockholder actions and would prevent the amendment of our bylaws or removal of directors by our stockholder without holding a meeting of stockholders.

Meetings of stockholders. Our bylaws provide that only a majority of the members of our board of directors then in office may call special meetings of stockholders and only those matters set forth in the notice of the special meeting may be considered or acted upon at a special meeting of stockholders. Our bylaws limit the business that may be conducted at an annual meeting of stockholders to those matters properly brought before the meeting.

Advance notice requirements. Our bylaws establish advance notice procedures with regard to stockholder proposals relating to the nomination of candidates for election as directors or new business to be brought before meetings of our stockholders. These procedures provide that notice of stockholder proposals must be timely given in writing to our corporate secretary prior to the meeting at which the action is to be taken. Generally, to be timely, notice must be received at our principal executive offices not less than 90 days or more than 120 days prior to the first anniversary date of the annual meeting for the preceding year. The notice must contain certain information specified in our bylaws.

Amendment to certificate of incorporation and bylaws. As required by the Delaware General Corporation Law, any amendment of our restated certificate of incorporation must first be approved by a majority of our board of directors, and if required by law or our restated certificate of incorporation, must thereafter be approved by a majority of the outstanding shares entitled to vote on the amendment, and a majority of the outstanding shares of each class entitled to vote thereon as a class, except that the amendment of the provisions relating to stockholder action, directors, limitation of liability and the amendment of our restated certificate of incorporation must be approved by not less than 75% of the outstanding shares entitled to vote on the amendment, and not less than 75% of the outstanding shares of each class entitled to vote thereon as a class. Our bylaws may be amended by the affirmative vote of a majority vote of the directors then in office, subject to any limitations set forth in the bylaws; and may also be amended by the affirmative vote of at least 75% of the outstanding shares entitled to vote on the amendment, or, if the board of directors recommends that the stockholders approve the amendment, by the affirmative vote of the majority of the outstanding shares entitled to vote on the amendment, in each case voting together as a single class.

Undesignated preferred stock. Our restated certificate of incorporation provides for authorized shares of preferred stock. The existence of authorized but unissued shares of preferred stock may enable our board of directors to render more difficult or to discourage an attempt to obtain control of us by means of a merger, tender offer, proxy contest or otherwise. For example, if in the due exercise of its fiduciary obligations, our board of directors were to determine that a takeover proposal is not in the best interests of us or our stockholders, our board of directors could cause shares of preferred stock to be issued without stockholder approval in one or more private offerings or other transactions that might dilute the voting or other rights of the proposed acquirer or insurgent stockholder or stockholder group. In this regard, our restated certificate of incorporation grants our board of directors broad power to establish the rights and preferences of authorized and unissued shares of preferred stock. The issuance of shares of preferred stock could decrease the amount of earnings and assets available for distribution to holders of shares of common stock. The issuance may also adversely affect the rights and powers, including voting rights, of these holders and may have the effect of delaying, deterring or preventing a change in control of us.

DESCRIPTION OF WARRANTS

The following description, together with the additional information we may include in any applicable prospectus supplements, summarizes the material terms and provisions of the warrants that we may offer under this prospectus and the related warrant agreements and warrant certificates. While the terms summarized below will apply generally to any warrants that we may offer, we will describe the particular terms of any series of warrants in more detail in the applicable prospectus supplement. If we indicate in the prospectus supplement, the terms of any warrants offered under that prospectus supplement may differ from the terms described below. Specific warrant agreements will contain additional important terms and provisions and will be incorporated by reference as an exhibit to the registration statement, which includes this prospectus.

General

We may issue warrants for the purchase of common stock, preferred stock in one or more series. We may issue warrants independently or together with common stock, preferred stock, and the warrants may be attached to or separate from these securities.

We will evidence each series of warrants by warrant certificates that we will issue under a separate warrant agreement. We will enter into the warrant agreement with a warrant agent. We will indicate the name and address of the warrant agent in the applicable prospectus supplement relating to a particular series of warrants.

We will describe in the applicable prospectus supplement the terms of the series of warrants, including:

- the offering price and aggregate number of warrants offered;
- the currency for which the warrants may be purchased;
- if applicable, the designation and terms of the securities with which the warrants are issued and the number of warrants issued with each such security or each principal amount of such security;
- if applicable, the date on and after which the warrants and the related securities will be separately transferable;
- in the case of warrants to purchase common stock or preferred stock, the number of shares of common stock or preferred stock, as the case may be, purchasable upon the exercise of one warrant and the price at which these shares may be purchased upon such exercise;
- the effect of any merger, consolidation, sale or other disposition of our business on the warrant agreement and the warrants;
- the terms of any rights to redeem or call the warrants;
- any provisions for changes to or adjustments in the exercise price or number of securities issuable upon exercise of the warrants;
- the periods during which, and places at which, the warrants are exercisable;
- the manner of exercise;
- the dates on which the right to exercise the warrants will commence and expire;
- the manner in which the warrant agreement and warrants may be modified;
- federal income tax consequences of holding or exercising the warrants;
- the terms of the securities issuable upon exercise of the warrants; and
- any other specific terms, preferences, rights or limitations of or restrictions on the warrants.

DESCRIPTION OF UNITS

We may issue units comprised of shares of common stock, shares of preferred stock and warrants in any combination. We may issue units in such amounts and in as many distinct series as we wish. This section outlines certain provisions of the units that we may issue. If we issue units, they will be issued under one or more unit agreements to be entered into between us and a bank or other financial institution, as unit agent. The information described in this section may not be complete in all respects and is qualified entirely by reference to the unit agreement with respect to the units of any particular series. The specific terms of any series of units offered will be described in the applicable prospectus supplement. If so described in a particular supplement, the specific terms of any series of units may differ from the general description of terms presented below. We urge you to read any prospectus supplement related to any series of units we may offer, as well as the complete unit agreement and unit certificate that contain the terms of the units. If we issue units, forms of unit agreements and unit certificates relating to such units will be incorporated by reference as exhibits to the registration statement, which includes this prospectus.

Each unit that we may issue will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time or at any time before a specified date. The applicable prospectus supplement may describe:

- the designation and terms of the units and of the securities comprising the units, including whether and under what circumstances those securities may be held or transferred separately;
- any provisions of the governing unit agreement;
- the price or prices at which such units will be issued;
- the applicable United States federal income tax considerations relating to the units;
- any provisions for the issuance, payment, settlement, transfer or exchange of the units or of the securities comprising the units; and
- any other terms of the units and of the securities comprising the units.

The provisions described in this section, as well as those described under “Description of Capital Stock,” and “Description of Warrants” will apply to the securities included in each unit, to the extent relevant and as may be updated in any prospectus supplements.

Issuance in Series

We may issue units in such amounts and in as many distinct series as we wish. This section summarizes terms of the units that apply generally to all series. Most of the financial and other specific terms of a particular series of units will be described in the applicable prospectus supplement.

Unit Agreements

We will issue the units under one or more unit agreements to be entered into between us and a bank or other financial institution, as unit agent. We may add, replace or terminate unit agents from time to time. We will identify the unit agreement under which each series of units will be issued and the unit agent under that agreement in the applicable prospectus supplement.

The following provisions will generally apply to all unit agreements unless otherwise stated in the applicable prospectus supplement:

Modification without Consent

We and the applicable unit agent may amend any unit or unit agreement without the consent of any holder:

- to cure any ambiguity; any provisions of the governing unit agreement that differ from those described below;
- to correct or supplement any defective or inconsistent provision; or
- to make any other change that we believe is necessary or desirable and will not adversely affect the interests of the affected holders in any material respect.

We do not need any approval to make changes that affect only units to be issued after the changes take effect. We may also make changes that do not adversely affect a particular unit in any material respect, even if they adversely affect other units in a material respect. In those cases, we do not need to obtain the approval of the holder of the unaffected unit; we need only obtain any required approvals from the holders of the affected units.

Modification with Consent

We may not amend any particular unit or a unit agreement with respect to any particular unit unless we obtain the consent of the holder of that unit, if the amendment would:

- impair any right of the holder to exercise or enforce any right under a security included in the unit if the terms of that security require the consent of the holder to any changes that would impair the exercise or enforcement of that right; or
- reduce the percentage of outstanding units or any series or class the consent of whose holders is required to amend that series or class, or the applicable unit agreement with respect to that series or class, as described below.

Any other change to a particular unit agreement and the units issued under that agreement would require the following approval:

- If the change affects only the units of a particular series issued under that agreement, the change must be approved by the holders of a majority of the outstanding units of that series; or
- If the change affects the units of more than one series issued under that agreement, it must be approved by the holders of a majority of all outstanding units of all series affected by the change, with the units of all the affected series voting together as one class for this purpose.

These provisions regarding changes with majority approval also apply to changes affecting any securities issued under a unit agreement, as the governing document.

In each case, the required approval must be given by written consent.

Unit Agreements Will Not Be Qualified under Trust Indenture Act

No unit agreement will be qualified as an indenture, and no unit agent will be required to qualify as a trustee, under the Trust Indenture Act. Therefore, holders of units issued under unit agreements will not have the protections of the Trust Indenture Act with respect to their units.

Mergers and Similar Transactions Permitted; No Restrictive Covenants or Events of Default

The unit agreements will not restrict our ability to merge or consolidate with, or sell our assets to, another corporation or other entity or to engage in any other transactions. If at any time we merge or consolidate with, or sell our assets substantially as an entirety to, another corporation or other entity, the successor entity will succeed to and assume our obligations under the unit agreements. We will then be relieved of any further obligation under these agreements.

The unit agreements will not include any restrictions on our ability to put liens on our assets, nor will they restrict our ability to sell our assets. The unit agreements also will not provide for any events of default or remedies upon the occurrence of any events of default.

Governing Law

The unit agreements and the units will be governed by Delaware law.

Form, Exchange and Transfer

We will issue each unit in global—i.e., book-entry—form only. Units in book-entry form will be represented by a global security registered in the name of a depository, which will be the holder of all the units represented by the global security. Those who own beneficial interests in a unit will do so through participants in the depository's system, and the rights of these indirect owners will be governed solely by the applicable procedures of the depository and its participants. We will describe book-entry securities, and other terms regarding the issuance and registration of the units in the applicable prospectus supplement.

Each unit and all securities comprising the unit will be issued in the same form.

If we issue any units in registered, non-global form, the following will apply to them.

The units will be issued in the denominations stated in the applicable prospectus supplement. Holders may exchange their units for units of smaller denominations or combined into fewer units of larger denominations, as long as the total amount is not changed.

- Holders may exchange or transfer their units at the office of the unit agent. Holders may also replace lost, stolen, destroyed or mutilated units at that office. We may appoint another entity to perform these functions or perform them ourselves.
- Holders will not be required to pay a service charge to transfer or exchange their units, but they may be required to pay for any tax or other governmental charge associated with the transfer or exchange. The transfer or exchange, and any replacement, will be made only if our transfer agent is satisfied with the holder's proof of legal ownership. The transfer agent may also require an indemnity before replacing any units.
- If we have the right to redeem, accelerate or settle any units before their maturity, and we exercise our right as to less than all those units or other securities, we may block the exchange or transfer of those units during the period beginning 15 days before the day we mail the notice of exercise and ending on the day of that mailing, in order to freeze the list of holders to prepare the mailing. We may also refuse to register transfers of or exchange any unit selected for early settlement, except that we will continue to permit transfers and exchanges of the unsettled portion of any unit being partially settled. We may also block the transfer or exchange of any unit in this manner if the unit includes securities that are or may be selected for early settlement.

Only the depository will be entitled to transfer or exchange a unit in global form, since it will be the sole holder of the unit.

Payments and Notices

In making payments and giving notices with respect to our units, we will follow the procedures as described in the applicable prospectus supplement.

PLAN OF DISTRIBUTION

We may sell securities:

- through underwriters;
- through dealers;
- through agents;
- directly to purchasers;
- in “at the market offering”, within the meaning of Rule 415(a)(4) of the Securities Act, ; or
- through a combination of any of these methods or any other method permitted by law.

In addition, we may issue the securities as a dividend or distribution or in a subscription rights offering to our existing security holders.

We may directly solicit offers to purchase securities, or agents may be designated to solicit such offers. In the prospectus supplement relating to such offering, we will name any agent that could be viewed as an underwriter under the Securities Act and describe any commissions that we must pay to any such agent. Any such agent will be acting on a best efforts basis for the period of its appointment or, if indicated in the applicable prospectus supplement, on a firm commitment basis. This prospectus may be used in connection with any offering of our securities through any of these methods or other methods described in the applicable prospectus supplement.

The distribution of the securities may be effected from time to time in one or more transactions:

- at a fixed price, or prices, which may be changed from time to time;
- at market prices prevailing at the time of sale;
- at prices related to such prevailing market prices; or
- at negotiated prices.

Each prospectus supplement will describe the method of distribution of the securities and any applicable restrictions.

The prospectus supplement with respect to the securities of a particular series will describe the terms of the offering of the securities, including the following:

- the name of the agent or any underwriters;
- the public offering or purchase price;
- any discounts and commissions to be allowed or paid to the agent or underwriters;
- all other items constituting underwriting compensation;
- any discounts and commissions to be allowed or paid to dealers; and
- any exchanges on which the securities will be listed.

If any underwriters or agents are used in the sale of the securities in respect of which this prospectus is delivered, we will enter into an underwriting agreement, sales agreement or other agreement with them at the time of sale to them, and we will set forth in the prospectus supplement relating to such offering the names of the underwriters or agents and the terms of the related agreement with them.

In connection with the offering of securities, we may grant to the underwriters an option to purchase additional securities with an additional underwriting commission, as may be set forth in the accompanying prospectus supplement. If we grant any such option, the terms of such option will be set forth in the prospectus supplement for such securities.

If a dealer is used in the sale of the securities in respect of which the prospectus is delivered, we will sell such securities to the dealer, as principal. The dealer, who may be deemed to be an “underwriter” as that term is defined in the Securities Act, may then resell such securities to the public at varying prices to be determined by such dealer at the time of resale.

If we offer securities in a subscription rights offering to our existing security holders, we may enter into a standby underwriting agreement with dealers, acting as standby underwriters. We may pay the standby underwriters a commitment fee for the securities they commit to purchase on a standby basis. If we do not enter into a standby underwriting arrangement, we may retain a dealer-manager to manage a subscription rights offering for us.

Agents, underwriters, dealers and other persons may be entitled under agreements which they may enter into with us to indemnification by us against certain civil liabilities, including liabilities under the Securities Act, and may be customers of, engage in transactions with or perform services for us in the ordinary course of business.

If so indicated in the applicable prospectus supplement, we will authorize underwriters or other persons acting as our agents to solicit offers by certain institutions to purchase securities from us pursuant to delayed delivery contracts providing for payment and delivery on the date stated in the prospectus supplement. Each contract will be for an amount not less than, and the aggregate amount of securities sold pursuant to such contracts shall not be less nor more than, the respective amounts stated in the prospectus supplement. Institutions with whom the contracts, when authorized, may be made include commercial and savings banks, insurance companies, pension funds, investment companies, educational and charitable institutions and other institutions, but shall in all cases be subject to our approval. Delayed delivery contracts will not be subject to any conditions except that:

- the purchase by an institution of the securities covered under that contract shall not at the time of delivery be prohibited under the laws of the jurisdiction to which that institution is subject; and
- if the securities are also being sold to underwriters acting as principals for their own account, the underwriters shall have purchased such securities not sold for delayed delivery. The underwriters and other persons acting as our agents will not have any responsibility in respect of the validity or performance of delayed delivery contracts.

Offered securities may also be offered and sold, if so indicated in the prospectus supplement, in connection with a remarketing upon their purchase, in accordance with a redemption or repayment pursuant to their terms, or otherwise, by one or more remarketing firms, acting as principals for their own accounts or as agents for us. Any remarketing firm will be identified and the terms of its agreement, if any, with us and its compensation will be described in the applicable prospectus supplement. Remarketing firms may be deemed to be underwriters in connection with their remarketing of offered securities.

Certain agents, underwriters and dealers, and their associates and affiliates, may be customers of, have borrowing relationships with, engage in other transactions with, or perform services, including investment banking services, for us or one or more of our respective affiliates in the ordinary course of business.

In order to facilitate the offering of the securities, any underwriters may engage in transactions that stabilize, maintain or otherwise affect the price of the securities or any other securities the prices of which may be used to determine payments on such securities. Specifically, any underwriters may overallocate in connection with the offering, creating a short position for their own accounts. In addition, to cover overallocations or to stabilize the price of the securities or of any such other securities, the underwriters may bid for, and purchase, the securities or any such other securities in the open market. Finally, in any offering of the securities through a syndicate of underwriters, the underwriting syndicate may reclaim selling concessions allowed to an underwriter or a dealer for distributing the securities in the offering if the syndicate repurchases previously distributed securities in transactions to cover syndicate short positions, in stabilization transactions or otherwise. Any of these activities may stabilize or maintain the market price of the securities above independent market levels. Any such underwriters are not required to engage in these activities and may end any of these activities at any time.

We may engage in at the market offerings into an existing trading market in accordance with Rule 415(a)(4) under the Securities Act. In addition, we may enter into derivative transactions with third parties, or sell securities not covered by this prospectus to third parties in privately negotiated transactions. If the applicable prospectus supplement so indicates, in connection with those derivatives, the third parties may sell securities covered by this prospectus and the applicable prospectus supplement, including in short sale transactions. If so, the third party may use securities pledged by us or borrowed from us or others to settle those sales or to close out any related open borrowings of stock, and may use securities received from us in settlement of those derivatives to close out any related open borrowings of stock. The third party in such sale transactions will be an underwriter and, if not identified in this prospectus, will be named in the applicable prospectus supplement (or a post-effective amendment). In addition, we may otherwise loan or pledge securities to a financial institution or other third party that in turn may sell the securities short using this prospectus and an applicable prospectus supplement. Such financial institution or other third party may transfer its economic short position to investors in our securities or in connection with a concurrent offering of other securities.

Under Rule 15c6-1 of the Exchange Act, trades in the secondary market generally are required to settle in three business days, unless the parties to any such trade expressly agree otherwise. The applicable prospectus supplement may provide that the original issue date for your securities may be more than three scheduled business days after the trade date for your securities. Accordingly, in such a case, if you wish to trade securities on any date prior to the third business day before the original issue date for your securities, you will be required, by virtue of the fact that your securities initially are expected to settle in more than three scheduled business days after the trade date for your securities, to make alternative settlement arrangements to prevent a failed settlement.

The securities may be new issues of securities and may have no established trading market. The securities may or may not be listed on a national securities exchange. We can make no assurance as to the liquidity of or the existence of trading markets for any of the securities.

The specific terms of any lock-up provisions in respect of any given offering will be described in the applicable prospectus supplement.

The underwriters, dealers and agents may engage in transactions with us, or perform services for us, in the ordinary course of business for which they receive compensation.

The anticipated date of delivery of offered securities will be set forth in the applicable prospectus supplement relating to each offer.

LEGAL MATTERS

Certain legal matters in connection with this offering will be passed upon for us by Goodwin Procter LLP, San Francisco, California. Any underwriters will also be advised about the validity of the securities and other legal matters by their own counsel, which will be named in the prospectus supplement.

EXPERTS

The consolidated financial statements of Viveve Medical, Inc. as of December 31, 2016 and 2015, and for each of the two years in the period ended December 31, 2016, incorporated in this Registration Statement on Form S-3 by reference to its Annual Report on Form 10-K for the year ended December 31, 2016 have been so incorporated in reliance upon the report (which contains an explanatory paragraph relating to the Company's ability to continue as a going concern as described in Note 1 to the consolidated financial statements) of BPM LLP, an independent registered public accounting firm, given the authority of said firm as experts in auditing and accounting.

WHERE YOU CAN FIND MORE INFORMATION

This prospectus is part of a registration statement that we have filed with the SEC. Certain information in the registration statement has been omitted from this prospectus in accordance with the rules of the SEC. We are subject to the information requirements of the Exchange Act and, in accordance therewith, file annual, quarterly and special reports, proxy statements and other information with the SEC. You may read and copy any document we file at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. You may call the SEC at 1-800-SEC-0330 for further information on the operation of the Public Reference Room. These documents also may be accessed through the SEC's electronic data gathering, analysis and retrieval system, or EDGAR, via electronic means, including the SEC's home page on the Internet (www.sec.gov).

We have the authority to designate and issue more than one class or series of stock having various preferences, conversion and other rights, voting powers, restrictions, limitations as to dividends, qualifications, and terms and conditions of redemption. See "Description of Capital Stock." We will furnish a full statement of the relative rights and preferences of each class or series of our stock which has been so designated and any restrictions on the ownership or transfer of our stock to any stockholder upon request and without charge. Written requests for such copies should be directed to Viveve Medical, Inc., 345 Inverness Drive South, Building B, Suite 250, Englewood, Colorado, 80112, Attention: Chief Financial Officer, by telephone request to (720) 696-8100, or by e-mail to sdurbin@viveve.com. Our website is located at www.viveve.com. Information contained on our website is not incorporated by reference into this prospectus and, therefore, is not part of this prospectus or any accompanying prospectus supplement.

INCORPORATION BY REFERENCE

The SEC allows us to incorporate by reference the information and reports we file with it, which means that we can disclose important information to you by referring you to these documents. The information incorporated by reference is an important part of this prospectus, and information that we file later with the SEC will automatically update and supersede the information already incorporated by reference. We are incorporating by reference the documents listed below, which we have already filed with the SEC, and any future filings we make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, including all filings made after the date of the filing of this registration statement and prior to the effectiveness of this registration statement, except as to any portion of any future report or document that is not deemed filed under such provisions, after the date of this prospectus and prior to the termination of this offering:

- Annual Report on Form 10-K for the year ended December 31, 2016, filed with the SEC on February 16, 2017;
- The Registrant's definitive proxy statement on Schedule 14A, which was filed with the SEC on July 7, 2017;
- Quarterly Reports on Form 10-Q filed with the SEC for the quarterly periods ended March 31, 2017, June 30, 2017, and September 30, 2017, as filed with the SEC on May 11, 2017, August 10, 2017, and November 8, 2017, respectively;
- The Registrant's Current Reports on Form 8-K as filed with the SEC on January 13, 2017, February 3, 2017, May 16, 2017, May 24, 2017, June 1, 2017, August 10, 2017, and August 17, 2017 (other than any reports or portions thereof that are furnished under Item 2.02 or Item 7.01 and any exhibits included with such Items); and
- The description of the common stock contained in the Registrant's registration statement on Form 8-A filed with the SEC on June 13, 2016, including any amendment or report filed for the purpose of updating such description.

Upon request, we will provide, without charge, to each person, including any beneficial owner, to whom a copy of this prospectus is delivered, a copy of the documents incorporated by reference into this prospectus but not delivered with the prospectus. You may request a copy of these filings, and any exhibits we have specifically incorporated by reference as an exhibit in this prospectus, at no cost by writing or telephoning us at the following address:

Viveve Medical, Inc.
345 Inverness Drive South, Building B, Suite 250
Englewood, Colorado 80112

You may also access these documents, free of charge on the SEC's website at www.sec.gov or on our website at www.viveve.com. Information contained on our website is not incorporated by reference into this prospectus, and you should not consider any information on, or that can be accessed from, our website as part of this prospectus or any accompanying prospectus supplement.

This prospectus is part of a registration statement we filed with the SEC. We have incorporated exhibits into this registration statement. You should read the exhibits carefully for provisions that may be important to you.

You should rely only on the information incorporated by reference or provided in this prospectus or any prospectus supplement. We have not authorized anyone to provide you with different information. We are not making an offer of these securities in any state where the offer is not permitted. You should not assume that the information in this prospectus or in the documents incorporated by reference is accurate as of any date other than the date on the front of this prospectus or those documents.

13,333,334 Shares



Viveve Medical, Inc.

Common Stock

PROSPECTUS SUPPLEMENT

Sole Book-Runner

COWEN

Lead Manager

Raymond James

Co-Manager

Mizuho Securities

December 6, 2018
