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

FORM 8-K

CURRENT REPORT
Pursuant to Section 13 or 15(d) of the
Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): March 29, 2021

BioSig Technologies, Inc.
(Exact name of registrant as specified in its charter)

Delaware	**001-38659**	**26-4333375**
(State or other jurisdiction of incorporation)	(Commission File Number)	(IRS Employer Identification No.)

54 Wilton Road, 2nd Floor **Westport, Connecticut**	**06880**
(Address of principal executive offices)	(Zip Code)

(203) 409-5444
(Registrant's telephone number, including area code)

N/A
(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

☐ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

☐ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

☐ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

☐ Pre-commencement communications pursuant to Rule 13e-4 (c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of exchange on which registered
Common Stock, par value $0.001 per share	BSGM	The NASDAQ Capital Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Item 7.01 Regulation FD Disclosure.

On March 29, 2021, BioSig Technologies, Inc. (the "Company") issued a letter to shareholders (the "March 2021 Shareholder Letter"), which is attached hereto as Exhibit 99.1, and issued a press release announcing that it has issued the March 2021 Shareholder Letter, which is attached hereto as Exhibit 99.2. The Company undertakes no obligation to update, supplement or amend the materials attached hereto as Exhibits 99.1 and 99.2.

In accordance with General Instruction B.2 of Form 8-K, the information in this Item 7.01 of this Current Report on Form 8-K, including Exhibits 99.1 and 99.2, shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Exchange Act or the Securities Act of 1933, as amended, except as shall be expressly set forth by reference in such a filing. Furthermore, the furnishing of information under Item 7.01 of this Current Report on Form 8-K is not intended to constitute a determination by the Company that the information contained herein, including the exhibits hereto, is material or that the dissemination of such information is required by Regulation FD.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number	Description
99.1	Shareholder Letter, dated March 2021 (furnished herewith pursuant to Item 7.01)
99.2	Press release, dated March 29, 2021 (furnished herewith pursuant to Item 7.01)
104	Cover Page Interactive Data File (formatted as Inline XBRL)

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: March 29, 2021

By: /s/ Kenneth L. Londoner
Name: Kenneth L. Londoner
Title: Executive Chairman

+1 (203) 409-5444
info@biosigtech.com

LETTER TO SHAREHOLDERS

March 2021

Dear BioSig Shareholder,

Despite the economic challenges that the prior year has brought, 2020 was a strong year for BioSig. We achieved our first commercial sales, strengthened our balance sheet, and launched new product development initiatives.

This year, 2021, has started on an equally strong note. Commercialization, innovation, and growth remain at the forefront of our strategic priorities as we expand our clinical footprint and strengthen our product positioning and service offerings.

More than 580 patient cases have been conducted using our PURE EP™ System by 38 physicians in eight clinical sites to date.

Our technology offers a novel way to acquire and process cardiac signals. These are essential diagnostic signals that deliver high clinical value in all types of cardiac catheter ablations.

Our NeuroClear division has also advanced its operations. The Company launched a development plan for a novel nerve mapping and stimulation technology, N-SENSE™, conducted its first preclinical studies, and was recently awarded the first patent exclusively licensed from the Mayo Foundation for Medical Education and Research. Our goal is to develop new intellectual properties and products, including new hardware, software, and algorithmic solutions, to address a rapidly growing neurostimulation device market.

In 2020, we raised a total of $38 million. All proceeds from these raises and the additional proceeds from warrant exercises in 2020 are presently expected to be used to support our commercialization strategy and development of new products to complement our product offering.

COMMERCIAL SALES AND ACCELERATED PURE EP ADOPTION

According to Grand View Research, Inc., the global electrophysiology devices market size is expected to reach $12.2 billion by 2026, expanding at a CAGR of 11.70% over the next five years.[1]

As a direct result of our team's rigorous efforts to install our flagship PURE EP™ System in leading medical centers across the nation, we believe that we are well on our way to expand these installations and convert them to commercial sales.

Just months ago, we completed our first commercial sale of three PURE EP™ Systems to St. David's HealthCare of Austin, Texas, an

[1] Electrophysiology Devices Market Size Worth $12.2 Billion By 2026; GrandViewResearch, September 2019

+1 (203) 409-5444
info@biosigtech.com

HCA Healthcare-owned hospital. As our clinical footprint grows, so does the demand for the evaluative installations for our technology.

To address this growing interest, we have switched to a new 90-day evaluation cycle, which should enable hospitals to more rapidly assess the PURE EP™ in clinical settings. The wealth of knowledge that our clinical team has acquired in the past twelve months allows us to showcase the benefits of the PURE EP™ in a broad range of clinical scenarios, which is a foundation for healthy commercial growth. In February, we announced that we would be installing the PURE EP™ at the New York-Presbyterian/Weill Cornell Medical Center, Michigan Medicine–University Hospital, and Houston Methodist Hospital. It is worth noting that the New York Presbyterian and Michigan Medicine-University Hospital maintain two of the most extensive electrophysiology programs in the country. We are thrilled to add them to our evaluation base.

Some of our latest additions, such as Memorial Hospital of South Bend, Indiana, and Deborah Heart and Lung Center in Brown Mills, New Jersey, have quickly become valuable evaluation partners. Dr. Raffaele Corbisiero and Dr. Pedram Kazemian of Deborah Heart and Lung Center have recently shared their experience working with the PURE EP™ in an interview published by EP Lab Digest. They spoke about the seamless integration of the PURE EP™ into their clinical practice and how our technology is already contributing to their procedural efficiency,

One of the definite highlights in our corporate history was the invitation to be featured in EPLive 2020 - an intensive, two-day educational meeting for practicing clinical cardiac electrophysiologists, electrophysiology fellows, and general cardiologists interested in treating complex arrhythmias. During this event, held virtually in December last year, the PURE EP™ was highlighted in several patient cases conducted by Andrea Natale, M.D., F.H.R.S., F.A.C.C., F.E.S.C., Executive Medical Director of Texas Cardiac Arrhythmia Institute and EPLive Course Director, and Joseph Gallinghouse, M.D. These cases were broadcast live from the Electrophysiology Center at St. David's Medical Center in Austin, TX, to an audience of over 800 attendees.

Our team was back on the virtual podium after a quick respite over the festive season when our technology was featured in EP Lab Digest's January issue. The editorial, authored by the Editor-in-Chief Bradley P. Knight, M.D., F.A.C.C., F.H.R.S., highlighted several challenges in modern electrophysiology and how the PURE EP™ System addresses these limitations.

A few weeks later, our technology was featured in the Spotlight session during the 26th Annual International AF Symposium. Dr. Joseph Gallinghouse, one of our most experienced physician users from Texas Cardiac Arrhythmia Institute, spoke about the advantages he observed when using the PURE EP™ System in complex arrhythmia cases, including identifying an arrhythmia ablation target via an interesting low amplitude signal from the PURE EP™ that the other systems in the lab didn't capture. The complete recording of Dr. Gallinghouse's presentation, which over 500 attendees viewed, and the articles mentioned above, are available on our website under *PURE EP / Physician Insights.*

+1 (203) 409-5444
info@biosigtech.com

Our clinical operations have remained virtually uninterrupted throughout most of 2020 and the first quarter of this year. We are looking forward to reporting on more progress and clinical findings later this year.

SCALING CLINICAL DISCOVERIES WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

We strive to remain at the forefront of innovation. In early February, we announced a new strategic initiative we are launching with the Mayo Foundation for Medical Education and Research to develop a next-generation AI- and machine learning-powered software for our PURE EP™ System. Looking further into the future, we plan to combine the cardiac signal data that we are acquiring with the PURE EP™ with the signals from other sources.

The signals that our system acquires demonstrate new diagnostic information that was not available before. Combining our signals with the high-quality data from other biomarkers, for example, nerve signals may present us with opportunities to uncover new clinical applications and even develop new therapies. Scaling these opportunities with AI-based applications may allow us to bring new technological solutions to the broader audience of physicians.

This program marks an exciting new chapter for BioSig. Having access to the wealth of clinical knowledge generated by Mayo Clinic allows us to accelerate the R&D process and advance these next-generation technologies to improve patient care further.

The global market for AI in healthcare is expected to grow to USD 45.2 billion by 2026 at an estimated CAGR of 44.9%[2]. We believe that integrating the AI- and machine learning-powered solutions into the PURE EP™ System will be a significant step towards better patient outcomes and improved efficiency of procedures.

AUGMENTED REALITY FOR REMOTE SERVICING

One of the main challenges of 2020 was the ongoing COVID-19-related travel restrictions. The ability to seamlessly continue clinical field operations and provide the best service to our customers and partners is paramount. To combat the ongoing uncertainties surrounding travel, we deployed Vuzix M400 Smart Glasses to support the rollout of the PURE EP™.

Vuzix has a strong record of successfully providing remote solutions to the world's most innovative companies worldwide, including Johns Hopkins, Verizon, and countless others that depend on Vuzix's technology to connect them to the outside world and keep business going as usual amid the pandemic. Our primary goal is to elevate the standard of care in the electrophysiology market. As the electrophysiology market continues to grow year-over-year,

[2] Artificial Intelligence in Healthcare Market with Covid-19 Impact Analysis by Offering, Technology, End-Use Application, End User and Region – Global Forecast to 2026; Markets and Markets

we can continue our efforts with remote servicing intended to enable continued installations, upgrades, and training during COVID-19 and beyond.

Not only does this new initiative save time, but the M400 Smart Glasses look to provide BioSig's clinical partners with quick remote access to technical experts who can assist with servicing the unique hardware and software of the PURE EP™ System. This step should enable our clinical field team to support the growing number of clinical sites utilizing PURE EP™ without the need for on-site visits.

ADVANCING OUR NEUROSTIMULATION INITIATIVE

Our NeurClear division is developing a novel sensing and stimulation technology to optimize existing neurostimulation therapies and develop novel solutions to diagnose and treat physiological and neurological disorders that include resistant hypertension, arthritis, chronic pain, complex regional pain syndrome (CRPS), and neuralgia.

The current neurostimulation market is predicted to grow at 11.2% CAGR and is expected to reach USD 12.2 billion by 2024[3] The market is driven primarily by deep brain stimulation (Parkinson's Disease and Essential Tremor), spinal cord stimulation, and renal denervation (RDN). Our NeuroClear team is looking to advance these therapies and develop novel treatment protocols for a host of other disorders through a differentiated value proposition of our platform technology.

Our initial focus is on improving therapies through clearer electroneurogram recordings, starting with enhancing the safety and efficacy of renal denervation procedures. Renal denervation has proven to be effective in reducing hypertension, but clinical endpoints remain suboptimal. There are over 10 million people that suffer from hypertension, and over half of all diagnosed patients are not responding to their medical therapy within a year of initiating the treatment. The renal denervation device market is expected to reach USD 7 billion by 2021, growing at 23.7% CAGR.[4]

The N-SENSE™, our flagship nerve mapping technology, aims to deliver a more significant reduction in ambulatory blood pressure by introducing a feedback loop for optimal ablation outcomes. Please visit our website www.neurocleartech.com for more information about our mission and our product.

In December 2020, we signed a research agreement with the University of Minnesota. The objective of this partnership is to develop novel therapies to treat sympathetic nervous system disease. Guided by the program studies' findings, we intend to develop new intellectual properties and products, including new hardware and software, with the support of a tier 1 US-based manufacturing partner and take it through FDA approval, manufacturing, and commercialization.

The U.S. Patent Office recently awarded our subsidiary a utility patent that we exclusively licensed from

[3] Bioelectronic Medicine: 2019-2029. IdTechEx report, Dr. Nadia Tsao
[4] iHealthcareAnalyst, Inc., February 2020

+1 (203) 409-5444
info@biosigtech.com

the Mayo Foundation for Medical Education and Research. This patent titled "*Systems and Methods for Electroporation*" describes and claims methods for improving hypertension treatments via electroporation. Electroporation is an emerging technique that has demonstrated efficacy in treatments for several critical conditions, most notably cancer, and is currently being evaluated for the treatments of autonomic nervous disorders.

With world-class research and clinical leadership from the University of Minnesota and Mayo Clinic, a growing intellectual portfolio, and a strong manufacturing partnership, we look forward to advancing one of the fastest-growing sectors in the medical device market.

STRONG BALANCE SHEET TO SUPPORT COMMERCIAL GROWTH

Our balance sheet remains robust with $28.3 million in cash, cash equivalent, and short-term investments as of December 30, 2020. Therefore, we believe that we are well-positioned for 2021.

EXECUTION IS OUR NUMBER ONE PRIORITY

We believe that the PURE EP™ is one of the most significant signal processing advancements in over 20 years.

Our technology addresses long-standing limitations that slow and disrupt cardiac catheter ablation procedures through its unique hardware design and software architecture.

We are pleased with the progress of our early efforts in neurostimulation and the promise of the opportunities they offer.

We believe that the relentless work that everyone in our Company has put into advancing our engineering, clinical and commercial efforts is finally coming to fruition. There is no better feeling than seeing a physician smile and hear them talk about the impact our technology has made on their procedure and, ultimately, on their patients' quality of life. We are determined to bring our technology to as many centers as we can, both large and small, and help the physicians elevate the standards of care.

We are proud of the progress we have made and are excited about the future. Thank you for your continued support.

With best wishes,

Kenneth L. Londoner, Chairman & CEO

SAFE HARBOR DISCLOSURE

This Shareholder Letter contains "forward-looking statements." Such statements may be preceded by the words "intends," "may," "will," "plans," "expects," "anticipates," "projects," "predicts," "estimates," "aims," "believes," "hopes," "potential" or similar words. Forward-looking statements are not guarantees of future performance, are based on certain assumptions, and are subject to various known and unknown risks and uncertainties, many of which are beyond the Company's control, and cannot be predicted or quantified and consequently, actual results may differ materially from those expressed or implied by such forward-looking statements. Such risks and uncertainties include, without limitation, risks and uncertainties associated with (i) the geographic, social, and economic impact of COVID-19 on our ability to conduct our business and raise capital in the future when needed, (ii) our inability to manufacture our products and product candidates on a commercial scale on our own, or in collaboration with third parties; (iii) difficulties in obtaining financing on commercially reasonable terms; (iv) changes in the size and nature of our competition; (v) loss of one or more key executives or scientists; and (vi) difficulties in securing regulatory approval to market our products and product candidates. More detailed information about the Company and the risk factors that may affect the realization of forward-looking statements is set forth in the Company's filings with the Securities and Exchange Commission (SEC), including the Company's Annual Report on Form 10-K and its Quarterly Reports on Form 10-Q. Investors and security holders are urged to read these documents free of charge on the SEC's website at http://www.sec.gov. The Company assumes no obligation to publicly update or revise its forward-looking statements as a result of new information, future events or otherwise.

+1 (203) 409-5444
info@biosigtech.com

SAFE HARBOR DISCLOSURE

This Shareholder Letter contains “forward-looking statements.” Such statements may be preceded by the words “intends,” “may,” “will,” “plans,” “expects,” “anticipates,” “projects,” “predicts,” “estimates,” “aims,” “believes,” “hopes,” “potential” or similar words. Forward-looking statements are not guarantees of future performance, are based on certain assumptions, and are subject to various known and unknown risks and uncertainties, many of which are beyond the Company’s control, and cannot be predicted or quantified and consequently, actual results may differ materially from those expressed or implied by such forward-looking statements. Such risks and uncertainties include, without limitation, risks and uncertainties associated with (i) the geographic, social, and economic impact of COVID-19 on our ability to conduct our business and raise capital in the future when needed, (ii) our inability to manufacture our products and product candidates on a commercial scale on our own, or in collaboration with third parties; (iii) difficulties in obtaining financing on commercially reasonable terms; (iv) changes in the size and nature of our competition; (v) loss of one or more key executives or scientists; and (vi) difficulties in securing regulatory approval to market our products and product candidates. More detailed information about the Company and the risk factors that may affect the realization of forward-looking statements is set forth in the Company’s filings with the Securities and Exchange Commission (SEC), including the Company’s Annual Report on Form 10-K and its Quarterly Reports on Form 10-Q. Investors and security holders are urged to read these documents free of charge on the SEC’s website at http://www.sec.gov. The Company assumes no obligation to publicly update or revise its forward-looking statements as a result of new information, future events or otherwise.

BioSig Issues Shareholder Letter with Corporate Update on Recent Achievements and Anticipated Milestones for 2021

- **Company expands clinical footprint, installations and commercial sales with leading hospitals**
- **Neurostimulation division to develop a novel sensing and stimulation technology to optimize neurostimulation therapies and develop novel solutions to diagnose and treat neurological disorders; the Company licensed a first utility patent from the Mayo Foundation for Medical Education and Research**
- **Launched artificial intelligence effort with leading partners**
- **Balance sheet remains robust with $28.3 million in cash, cash equivalent, and short-term investments, well-positioned for 2021, based on current expectations**

Westport, CT, March 29, 2021 /GLOBE NEWSWIRE/ — BioSig Technologies, Inc. (NASDAQ: BSGM) ("BioSig" or the "Company"), a medical technology company commercializing a proprietary biomedical signal processing platform designed to improve signal fidelity and uncover the full range of ECG and intra-cardiac signals, today announced that the Company had issued a Letter to Shareholders providing highlights on the Company's recent developments and updates.

Recent Company highlights include:

- Updates on the commercial adoption of the PURE EP™ System, including the first commercial sale of three units to St. David's HealthCare in Austin, TX, an HCA Healthcare-owned hospital.
- More than 643 patient cases have been conducted with the PURE EP™ System by 40 physicians across eight clinical sites to date.
- At least three more clinical sites are scheduled to commence the evaluation in the coming months, including the New York-Presbyterian/Weill Cornell Medical Center and the Michigan Medicine–University Hospital that maintain two of the most extensive electrophysiology programs in the country.
- The PURE EP™ System received favorable reviews during leading industry conferences, including EPLive 2020 and the 26th Annual International AF Symposium 2021. Complete recordings of the presentations and articles authored by the physician users and independent reviewers of the technology are available on the Company's website.
- The Company launched an initiative to develop and commercialize novel AI- and machine learning-powered software solutions. The program will be conducted under the leadership of Mayo Clinic and Dr. Alexander Wissner-Gross, a leading AI scientist at M.I.T.
- The Company deployed innovative Vuzix M400 Smart Glasses for remote servicing and training, allowing its customers uninterrupted access to its technical team.
- The NeuroClear™ division is developing a novel nerve sensing and stimulation technology to improve current treatments for resistant hypertension and other nerve-related therapeutic targets.
- The Company reports $28.3 million in cash as of December 31, 2020, positioning the Company well for commercial and operational growth, based on the Company's current expectations and projections.

"We made some significant strides in 2020, which have laid the foundation for a strong 2021," stated Kenneth L. Londoner, Founder, Chairman, and CEO of BioSig Technologies, Inc. "Commercial adoption of the PURE EP™ System is gaining momentum, and we continue to add new healthcare facilities and complete more patient cases. Commercialization, innovation, and growth remain at the forefront of our strategic priorities as we expand our clinic footprint and strengthen our product positions and service offerings. We have a strong balance sheet, we are progressing well with our neurostimulation division, and are looking to the future of next-generation AI- and machine learning-powered software for our PURE EP™ System with a new strategic initiative that we are launching with the Mayo Foundation for Medical Education and Research. BioSig is well-positioned to have an excellent 2021, and we look forward to executing on many opportunities that we believe will drive shareholder value."

To view the Company's Shareholder Letter in its entirety, please visit https://ir.biosig.com.

About BioSig Technologies
BioSig Technologies is a medical technology company commercializing a proprietary biomedical signal processing platform designed to improve signal fidelity and uncover the full range of ECG and intra-cardiac signals (www.biosig.com).

The Company's first product, PURE EP™ System is a computerized system intended for acquiring, digitizing, amplifying, filtering, measuring and calculating, displaying, recording, and storing of electrocardiographic and intracardiac signals for patients undergoing electrophysiology (EP) procedures in an EP laboratory.

Forward-looking Statements
This press release contains "forward-looking statements." Such statements may be preceded by the words "intends," "may," "will," "plans," "expects," "anticipates," "projects," "predicts," "estimates," "aims," "believes," "hopes," "potential" or similar words. Forward- looking statements are not guarantees of future performance, are based on certain assumptions and are subject to various known and unknown risks and uncertainties, many of which are beyond the Company's control, and cannot be predicted or quantified and consequently, actual results may differ materially from those expressed or implied by such forward-looking statements. Such risks and uncertainties include, without limitation, risks and uncertainties associated with (i) the geographic, social and economic impact of COVID-19 on our ability to conduct our business and raise capital in the future when needed, (ii) our inability to manufacture our products and product candidates on a commercial scale on our own, or in collaboration with third parties; (iii) difficulties in obtaining financing on commercially reasonable terms; (iv) changes in the size and nature of our competition; (v) loss of one or more key executives or scientists; and (vi) difficulties in securing regulatory approval to market our products and product candidates. More detailed information about the Company and the risk factors that may affect the realization of forward-looking statements is set forth in the Company's filings with the Securities and Exchange Commission (SEC), including the Company's Annual Report on Form 10-K and its Quarterly Reports on Form 10-Q. Investors and security holders are urged to read these documents free of charge on the SEC's website at http://www.sec.gov. The Company assumes no obligation to publicly update or revise its forward-looking statements as a result of new information, future events or otherwise.

Contact:
Andrew Ballou
BioSig Technologies, Inc.
Vice President, Investor Relations

54 Wilton Road, 2nd floor
Westport, CT 06880
aballou@biosigtech.com
203-409-5444, x119