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): October 13, 2022

MICROBOT MEDICAL INC.
(Exact name of registrant as specified in its charter)

Delaware	**000-19871**	**94-3078125**
(State or other jurisdiction of incorporation)	**(Commission File Number)**	**(IRS Employer Identification No.)**

25 Recreation Park Drive, Unit 108
Hingham, Massachusetts 02043
(Address of Principal Executive Offices) (Zip Code)

Registrant's telephone number, including area code: (781) 875-3605

(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 each exchange on which registered**
Common Stock, $0.01 par value	MBOT	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 (17 CFR §230.405) or Rule 12b-2 of the Securities Exchange Act of 1934 (17 CFR §240.12b-2).

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 8.01 Other Events.

On October 13, 2022, Microbot Medical Inc. (the "Company") issued a press release announcing a significant development milestone as it completed the GLP animal study for the LIBERTY® Robotic System, the first disposable robotic system being developed for endovascular procedures. The study was performed by a team of seasoned Key Opinion Leaders (KOLs) in the endovascular space at a world-class MedTech research laboratory with FDA-required levels of planning, controlling, monitoring, and reporting (GLP standards), using porcine model.

During the GLP animal study, the physicians conducted pre-determined 63 navigations to the targeted sites using the investigational LIBERTY Robotic System and performed an equal number of procedures manually. The performance endpoint of the LIBERTY Robotic System after robotic navigation was successfully completed for 58 out of the 63 targets (92%), while 3 of the targets (4.8%) were not completed due to technical issues and 2 (3.2%) were not completed due to fluoroscopy related issues (non-device related). Post navigation intra-operative selective angiograms of the target vessels showed no definite evidence of acute vascular injury. Follow up angiograms of these vessels in post-procedure day 3 showed normal vessel anatomy without signs of injury. Initial postmortem gross pathology examination of some of the target organs showed preliminary findings, which will be further investigated in the pending histopathology analysis, and potentially an additional pre-clinical study.

In addition to the objective measurements, the performance and usability of the LIBERTY Robotic System were subjectively graded by each of the physicians, with their assessments accounting for features such as ease of navigation to the target, learning curve, and system stability. For the target sites reached, the physicians graded the LIBERTY Robotic system at the highest grade.

The press release, which is filed as Exhibit 99.1 to this Current Report on Form 8-K, is incorporated herein by reference.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number	Description
99.1	Press Release dated October 13, 2022
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

SIGNATURES

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

MICROBOT MEDICAL INC.

By: */s/ Harel Gadot*
Name: Harel Gadot
Title: Chief Executive Officer, President and Chairman

Date: October 13, 2022

Exhibit 99.1

Microbot Medical Completes GLP Animal Study for the LIBERTY® Robotic System

HINGHAM, Mass., October 13, 2022 – Microbot Medical Inc. (Nasdaq: MBOT) announced a significant development milestone as it completed the GLP animal study for the LIBERTY® Robotic System, the first disposable robotic system being developed for endovascular procedures. The study was performed by a team of seasoned Key Opinion Leaders (KOLs) in the endovascular space at a world-class MedTech research laboratory with FDA-required levels of planning, controlling, monitoring, and reporting (GLP standards), using porcine model.

During the GLP animal study, the physicians conducted pre-determined 63 navigations to the targeted sites using the investigational LIBERTY Robotic System and performed an equal number of procedures manually. The performance endpoint of the LIBERTY Robotic System after robotic navigation was successfully completed for 58 out of the 63 targets (92%), while 3 of the targets (4.8%) were not completed due to technical issues and 2 (3.2%) were not completed due to fluoroscopy related issues (non-device related). Post navigation intra-operative selective angiograms of the target vessels showed no definite evidence of acute vascular injury. Follow up angiograms of these vessels in post-procedure day 3 showed normal vessel anatomy without signs of injury. Initial postmortem gross pathology examination of some of the target organs showed preliminary findings, which will be further investigated in the pending histopathology analysis, and potentially an additional pre-clinical study.

In addition to the objective measurements, the performance and usability of the LIBERTY Robotic System were subjectively graded by each of the physicians, with their assessments accounting for features such as ease of navigation to the target, learning curve, and system stability. For the target sites reached, the physicians graded the LIBERTY Robotic system at the highest grade.

“It was a very satisfying experience,” commented Dr. Sebastian Flacke, MD PhD, Professor of Radiology Tufts Medical School, Chief Interventional Radiology, Vice Chair for Research, Lahey Hospital and Medical Center. “It gives you a very precise feeling on what you’re doing with a lot of control.”

“Set-up time is quick,” added Dr. Dmitry J. Rabkin, MD, Ph.D., FSIR, Assistant Chief, Division of Angiography and Interventional Radiology, Department of Radiology, Brigham and Women’s Hospital, after his own experience with LIBERTY during the GLP study. “The learning curve appears to be easy. The all-around experience was very good, delicate and precise.”

“We are very proud and excited of how LIBERTY performed during the GLP animal study,” commented Dr. Eyal Morag, Chief Medical Officer of Microbot. “It was exciting to watch my very esteemed colleagues quickly adapt to performing the procedures robotically, and their success in hitting the targets is a testament to just how accessible LIBERTY is.”

The LIBERTY Robotic System is investigational and has not been cleared by the U.S. Food and Drug Administration for any use, and accordingly it is not commercially available in the United States or in any other market. The Company plans to further support this study with additional pre-clinical and clinical data.

About Microbot Medical Inc.

Microbot Medical Inc. (NASDAQ: MBOT) is a pre-clinical medical device company that specializes in transformational micro-robotic technologies, focused primarily on both natural and artificial lumens within the human body. Microbot's current proprietary technological platforms provide the foundation for the development of a Multi Generation Pipeline Portfolio (MGPP).

Microbot Medical was founded in 2010 by Harel Gadot, Prof. Moshe Shoham, and Yossi Bornstein with the goals of improving clinical outcomes for patients and increasing accessibility through the use of micro-robotic technologies. Further information about Microbot Medical is available at http://www.microbotmedical.com.

Safe Harbor

Statements as to future financial and/or operating results, future growth in research, technology, clinical development, and potential opportunities for Microbot Medical Inc. and its subsidiaries, along with other statements about the future expectations, beliefs, goals, plans, or prospects expressed by management, constitute forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 and the Federal securities laws. Any statements that are not historical fact (including, but not limited to statements that contain words such as "will," "believes," "plans," "anticipates," "expects" and "estimates") should also be considered to be forward-looking statements. Forward-looking statements involve risks and uncertainties, including, without limitation, market conditions, risks inherent in the development and/or commercialization of potential products, including LIBERTY, the outcome of its studies to evaluate LIBERTY and other existing and future technologies, uncertainty in the results of pre-clinical studies and clinical trials or regulatory pathways and regulatory approvals, uncertainty resulting from the COVID-19 pandemic, need and ability to obtain future capital, and maintenance of intellectual property rights. Additional information on risks facing Microbot Medical can be found under the heading "Risk Factors" in Microbot Medical's periodic reports filed with the Securities and Exchange Commission (SEC), which are available on the SEC's web site at www.sec.gov. Microbot Medical disclaims any intent or obligation to update these forward-looking statements, except as required by law.

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