UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934

For the month of February 2021

Commission File Number: 001-38524

Titan Medical Inc.

(Exact Name of Registrant as Specified in Charter)

155 University Avenue, Suite 750 Toronto, Ontario M5H 3B7 Canada (Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F. Form 20-F \boxtimes Form 40-F \square

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Note: Regulation S-T Rule 101(b)(1) only permits the submission in paper of a Form 6-K if submitted solely to provide an attached annual report to security holders.

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Note: Regulation S-T Rule 101(b)(7) only permits the submission in paper of a Form 6-K if submitted to furnish a report or other document that the registrant foreign private issuer must furnish and make public under the laws of the jurisdiction in which the registrant is incorporated, domiciled or legally organized (the registrant's "home country"), or under the rules of the home country exchange on which the registrant's securities are traded, as long as the report or other document is not a press release, is not required to be and has not been distributed to the registrant's security holders, and, if discussing a material event, has already been the subject of a Form 6-K submission or other Commission filing on EDGAR.

SIGNATURE

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.

TITAN MEDICAL INC. (Registrant)

Date: February 16, 2021

By: /s/ Monique Delorme

Name:Monique DelormeTitle:Chief Financial Officer

EXHIBIT INDEX

<u>99.1</u> <u>News Release dated February 16, 2021</u>

Titan Medical Launches "Titan Living Labs" Showcasing a Behind-the-Scenes Look at Product Development

TORONTO--(BUSINESS WIRE)--February 16, 2021--Titan Medical Inc. ("Titan" or the "Company") (TSX: TMD) (Nasdaq: TMDI), a medical device company focused on the design and development of surgical technologies for robotic single access surgery, today announced the launch of "Titan Living Labs", a new media-rich addition to its website providing access to the stories behind the design, engineering and innovative technologies employed by Titan's engineering team for the EnosTM robotic single access surgical system.

"The heart of Titan is its intellectual capital including its engineering team, which is focused on solving the challenges of robotic surgery. With Titan Living Labs, we are excited to present stories in video, text and photography on how Titan team members approach, solve and advance aspects of robotic assisted surgery," said David McNally, President and Chief Executive Officer of Titan. "With this initiative, we hope to share our advancements on a range of topics such as handpiece and instruments design, to anecdotes on the role of physics, points of inspiration for our innovations, and how surgeon feedback influences fundamental engineering choices."

Titan Living Labs is accessible via the Company's website at www.titanmedicalinc.com.

About Titan Medical

Titan Medical Inc., a medical device company headquartered in Toronto, is focused on developing robotic assisted technologies for application in single access surgery. The Enos system, by Titan Medical, is being developed with dual 3D and 2D high-definition vision systems, multi-articulating instruments, and an ergonomic surgeon workstation. With the Enos system, Titan intends to initially pursue gynecologic surgical indications.

Certain of Titan's robotic assisted surgical technologies and related intellectual property have been licensed to Medtronic plc, while retaining world-wide rights to commercialize the technologies for use with the Enos system.

Enos™ is a trademark of Titan Medical Inc.

For more information, please visit www.titanmedicalinc.com.

Forward-Looking Statements

This news release contains "forward-looking statements" within the meaning of applicable Canadian and U.S. securities laws. Such statements reflect the current expectations of management of the Company's future growth, results of operations, performance and business prospects and opportunities. Wherever possible, words such as "may", "would", "could", "will", "anticipate", "believe", "plan", "expect", "intend", "estimate", "potential for" and similar expressions have been used to identify these forward-looking statements, including, without limitation, references to: the Company's focus on the design and development of surgical technologies for robotic single access surgery, the Company's hope to share its advancements on a range of topics through the Titan Living Labs addition to its website, that the Enos system is being developed with dual 3D and 2D high-definition vision systems, multi-articulating instruments and an ergonomic surgeon workstation and that Titan intends to initially pursue gynecologic surgical indications. These statements reflect management's current beliefs with respect to future events and are based on information currently available to management. Forward-looking statements involve significant risks, uncertainties and assumptions. Many factors could cause the Company's actual results, performance or achievements to be materially different from any future results, performance or achievements that may be expressed or implied by such forward-looking statements, including, without limitation, those listed in the "Risk Factors" section of the Company's Annual Report on Form 20-F for the fiscal year ended December 31, 2019 (which may be viewed at www.sedar.com and at www.sec.gov). Should one or more of these risks or uncertainties materialize, or should assumptions underlying the forward-looking statements prove incorrect, actual results, performance, or achievements may vary materially from those expressed or implied by the forward-looking statements contained in this news release. These factors should be considered carefully, and prospective investors should not place undue reliance on the forward-looking statements. Although the forward-looking statements contained in the news release are based upon what management currently believes to be reasonable assumptions, the Company cannot assure prospective investors that actual results, performance or achievements will be consistent with these forward-looking statements. Except as required by law, the Company expressly disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise.

Contacts

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