Identification No.)

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

Post-Effective Amendment No. 1 FORM S-8 REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

Titan Medical Inc.

(Exact name of registrant as specified in its charter)

Ontario, Canada 98-0663504
(State or other jurisdiction (IRS Employer

of incorporation)

76 Berkeley Street

Toronto, Ontario, M5A 2W7
Canada
(Address and telephone number of Registrant's principal executive offices)

TITAN MEDICAL INC. STOCK OPTION PLAN (AMENDED AND RESTATED EFFECTIVE AS OF JUNE 9, 2021) TITAN MEDICAL INC. SHARE UNIT PLAN (AMENDED AND RESTATED EFFECTIVE AS OF JUNE 8, 2022) TITAN MEDICAL INC. DEFERRED SHARE UNIT PLAN (AMENDED AND RESTATED AS OF JUNE 8, 2022) TITAN MEDICAL INC. EMPLOYEE SHARE PURCHASE PLAN DATED JUNE 8, 2022

(Full Title of plan)

C T Corporation System
1015 15th Street N.W., Suite 1000
Washington, DC 20005
(Name and address of agent for service)

(202) 572-3100

(Telephone number, including area code, of agent for service)

Copies to:

Dorsey & Whitney LLP
James Guttman
Richard Raymer
TD Canada Trust Tower
Brookfield Place
161 Bay Street, Suite 4310
Toronto, Ontario, Canada M5J 2S1
(416) 367-7376

Indicate	by check	mark	whether	the regis	trant is a	large	accelerated	filer, an	accelerated	filer, a non	-accelerate	ed filer, a s	smaller rep	orting com	pany, or	an emerging	growth
company	. See the	definit	ions of '	"large acc	celerated	filer,"	"accelerate	d filer,"	"sma ller rep	orting com	pany" and	"emerging	g growth c	ompany" i	n Rule 12	b-2 of the I	Exchange
Act.:																	

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Large accelerated filer		Accelerated filer	
Non-accelerated filer	\boxtimes	Smaller reporting company	
		Emerging growth company	[
	indicate by check mark if the registrant has elected not to use the extended transition period for crsuant to Section $7(a)(2)(B)$ of the Securities Act. \Box	complying with any new or revised financia	al

DEREGISTRATION OF UNSOLD SECURITIES

This post-effective amendment relates to Registration Statement No. 333-267447 filed September 16, 2022 (the "Registration Statement") by Titan Medical Inc. (the "Registrant) with the Securities and Exchange Commission (the "SEC") pertaining to (a) the offering by the Registrant of 16,214,640 common shares of the Registrant (the "Shares"), for issuance pursuant to (i) the exercise of options under the Titan Medical Inc. Stock Option plan, as amended and restated effective as of June 9, 2021, (ii) the exercise or settlement of awards granted under the Titan Medical Inc. Deferred Share Unit Plan, as amended and restated effective as of June 8, 2022, (iii) the exercise or settlement of awards granted under the Titan Medical Inc. Share Unit Plan, as amended and restated effective as of June 8, 2022, and (iv) the Shares issuable upon the exercise or settlement of awards granted under the Titan Medical Inc. Employee Share Purchase Plan, as of June 8, 2022 and (b) the resale of 9,322,819 Shares previously issued and underlying stock options and restricted share units previously granted under the Stock Option Plan and Share Unit Plan.

On April 3, 2023, the Registrant filed a Form 25 to report the delisting of the Shares from the NASDAQ stock exchange and to deregister the Shares under Section 12(b) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). The Registrant intends to file a Form 15 with the SEC, requesting suspension of reporting obligations under Section 13 and 15(d) of the Exchange Act, approximately 10 calendar days from the date hereof.

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	SIGNATURES				
*	mendment No. 1 to the Registration Statemer	_		ieve that it meets all of the requirements for filing on igned on its behalf by the undersigned, thereunto duly	
		TITA	N MEDI	CAL INC.	
		By:	/s/ Cary G. Vance		
			Name: Title:	Cary G. Vance President, Chief Executive Officer	
rursuant to the requirements of the Securities Act of apacities indicated, on the 3rd day of April, 2023.	1933, this Post-Effective Amendment No. 1 t	the Registra	ation State	ement has been signed by the following persons in the	
ignature	Title				
/ Cary G. Vance	President, Chief Executive O	fficer, Directo	or		
ary G. Vance					
/ Stephen Lemieux	Chief Financial Officer				
ephen Lemieux					
/s/ Paul Cataford	Chairman of the Board				
aul Cataford					
/s/ Anthony J. Giovinazzo	Director				
nthony J. Giovinazzo					
/s/ Cathy Steiner	Director				
athy Steiner					
Pursuant to the Power of Attorney included as Stephen Lemieux as attorney-in-fact does hereb				ies and Exchange Commission on September 16, 202. ment on Form S-8 on behalf of each signatory.	
y: /s/ Stephen Lemieux Name: Stephen Lemieux Title: Chief Financial Officer					

Pursuant to the requirements of Section 6(a) of the Securities Act of 1933, the undersigned has signed this Registration Statement, solely in the capacity of the duly authorized representative of Titan Medical Inc. in the United States, on April 3, 2023.

TITAN MEDICAL INC.

By: /s/ Cary G. Vance
Name: CARY G. VANCE

Title: President, Chief Executive Officer