UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form	8-K
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): August 13, 2022

PLUS THERAPEUTICS, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 001-34375 (Commission File Number) 33-0827593 (IRS Employer Identification No.)

4200 Marathon Blvd., Suite 200, Austin, Texas 78756 (Address of principal executive offices, with zip code)

(737) 255-7194 (Registrant's telephone number, including area code)

N/A

 $(Former\ name\ or\ former\ address, if\ changed\ since\ last\ report)$

	ck the appropriate box below if the Form 8-K filing is in the powing provisions (see General Instructions A.2. below):	2 2	ling obligation of the registrant under any of the		
	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))				
Sec	urities registered pursuant to Section 12(b) of the Act:				
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	Title of each class	Trading Symbol(s)	Name of each exchange on which registered		
 Indi	Title of each class	Symbol(s)  PSTV  ag growth company as defined in Rule 4	on which registered The Nasdaq Capital Market		
Indi cha	Title of each class  Common Stock, par value \$0.001  cate by check mark whether the registrant is an emergin	Symbol(s)  PSTV  ag growth company as defined in Rule 4	on which registered The Nasdaq Capital Market		

#### Item 8.01 Other Events.

On August 17, 2022, Plus Therapeutics, Inc. (the "Company") announced that it has been awarded a \$17.6 million Product Development Research grant by the Cancer Prevention and Research Institute of Texas to fund the continued development of the Company's lead investigational targeted radiotherapeutic, Rhenium-186 NanoLiposome ("186RNL"), for the treatment of patients with leptomeningeal metastases ("LM").

Previously, on August 13, 2022, the Company announced that the dose administered in the first cohort of the Company's Phase 1/2a dose escalation trial of ¹⁸⁶RNL for the treatment of patients with LM was well-tolerated with no treatment-related adverse events greater than grade 1, and that the three patients in the cohort experienced ¹⁸⁶RNL distribution throughout the cerebrospinal fluid ("CSF") subarachnoid space and a decreased CSF cell count after treatment, each of which was durable past one week.

Separately, on August 15, 2022, the Company announced that its Board of Directors has approved a share repurchase program pursuant to which the Company is authorized to repurchase up to \$2.0 million of the Company's outstanding common stock. The timing and amount of any shares repurchased will be determined based on the Company's evaluation of market conditions and other factors, including consent of the Company's lender. Repurchases may be made from time to time on the open market over the next 12 months. The Company is not obligated to acquire any shares and the program may be discontinued or suspended at any time.

## **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 hereunto duly authorized.

Date: August 17, 2022

## PLUS THERAPEUTICS, INC.

By: /s/ Marc H. Hedrick, M.D.

Marc H. Hedrick, M.D.
President and Chief Executive Officer