FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number:	3235-0287								
	Estimated average b	urden								
- 1	hours por rosponso:	0.5								

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

(Last) 222 BER	222 BERKELEY STREET,					2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [ RYTM ]  3. Date of Earliest Transaction (Month/Day/Year) 09/10/2021							[ (Ch	below)	cable) or (give title		10% Ov Other (s below)	vner
(Street) BOSTON (City)	N M		02116 (Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)						Line	Individual or Joint/Group Filing (Check Applicable ine)  X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)				action	ction 2A. Deemed Execution Date,		3. Transact Code (In 8)	ion	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)		ed (A) or tr. 3, 4 and	5. Amount of Securities Beneficially		Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	e Conversion Date Execution Date, Tr		Transac Code (li	ansaction of ode (Instr. Derivative			Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
				C	Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amount or Number of Shares					
Stock Option (Right to Buy)	\$12.98	09/10/2021			A		15,000		(1)	0:	9/09/2031	Common Stock	15,000	\$0	15,000	)	D	
Restricted Stock Units	(2)	09/10/2021			A		2,500		(3)		(3)	Common Stock	2,500	\$0	2,500		D	

## **Explanation of Responses:**

- 1. The stock options were granted on September 10, 2021. 25% of the shares subject to the option will vest and become exercisable on September 10, 2022 and the remaining 75% of the shares subject to the option shall vest and become exercisable in 12 substantially equal installments upon the Reporting Person's completion of each three full months of successive service to the Issuer thereafter.
- 2. Each restricted stock unit represents a contingent right to receive one share of Issuer common stock.
- 3. The restricted stock units vest as to 25% of the total shares on each of September 10, 2022, September 10, 2023, September 10, 2024 and September 10, 2025. The restricted stock units have no expiration

/s/ Hunter Smith, attorney-infact for Linda Shapiro Manning

09/15/2021

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- \* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.