Instruction 1(b)

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C. 20549	
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Name and Address of Reporting Person* Roberts William T. (First) (Middle)							2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]									able) r (give title		10% Ow Other (s below)	ner	
` ′	KELEY ST	•	03/2	3. Date of Earliest Transaction (Month/Day/Year) 03/29/2021										ief Accou						
(Street) BOSTON (City)			02116 (Zip)		4. If Amendment, Date of Original Filed (Month/Day/Year)									5. Indi Line) X	, I					
		Tab	le I - Non	-Deriva	ative	Sec	curities	s Ac	quired, I	Disp	osed o	f, or Be	nefici	ially	Owned					
			2. Transaction Date (Month/Day/Year)			2A. Deemed Execution Date, if any (Month/Day/Year		Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A) or (D)		е	Transacti (Instr. 3 a	ion(s)			(
	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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution D if any (Month/Day/	Date, Ti	4. Transactio Code (Inst 8)				6. Date Exercisa Expiration Date (Month/Day/Yea			of Securi Underlyir Derivativ	7. Title and Amou of Securities Underlying Derivative Securit (Instr. 3 and 4)		s. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				С	ode V	,	(A)	(D)	Date Exercisabl		xpiration ate	Title	Amou or Numb of Share	er						
Stock Option (Right to Buy)	\$20.25	03/29/2021			A		20,000		(1)	0	3/28/2031	Common Stock	20,00	00	\$0	20,000		D		
Restricted Stock	(2)	03/29/2021			A		10,000		(3)		(3)	Common	10.00	00	\$0	10.000		D		

Explanation of Responses:

- 1. The stock options were granted on March 29, 2021. 25% of the shares subject to the option will vest and become exercisable on March 29, 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 March 29, 2022, March 29, 2023, March 29, 2024 and March 29, 2025. The restricted stock units have no expiration date.

/s/ Hunter Smith, attorney-infact for William T. Roberts

** Signature of Reporting Person Date

03/30/2021

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.