FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940 Instruction 1(b)

Name and Address of Reporting Person* Roberts William T.				<u>I</u>	2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]						[(Cr	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title belge)				
	YTHM PHA	irst) ARMACEUTICA TREET, 12TH FI			3. Date of Earliest Transaction (Month/Day/Year) 02/09/2022						Chief Accounting Officer					
(Street) BOSTON (City)			02116 (Zip)	4	4. If Amendment, Date of Original Filed (Month/Day/Year)						Lin	ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3) 2. Transa Date (Month/D			te	Execution Date,		Code (Ins	Transaction Disposed Of (D) (Instr. 3, 4					Form (D) or	wnership n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership		
							Code V	Amoun	(A) o	Price	Transact	nsaction(s) str. 3 and 4)		((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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date if any (Month/Day/Yea	ate, Transaction Code (Inst		action of E		6. Date Exercisable and Expiration Date (Month/Day/Year) (Month/Day/Year) 7. Title and Am of Securities Underlying Derivative Sect (Instr. 3 and 4)		ies g Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
				Code	e V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares					
Stock Option (Right to Buy)	\$6.8	02/09/2022		A		18,500		(1)	02/08/2032	Common Stock	18,500	\$0	18,500)	D	
Restricted Stock Units	(2)	02/09/2022		A		9,250		(3)	(3)	Common Stock	9,250	\$0	9,250		D	

Explanation of Responses:

- 1. The stock options were granted on February 9, 2022. The options vest and become exercisable in 16 substantially equal installments upon the Reporting Person's completion of each three full months of successive service to the Issuer following the grant date.
- 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 February 9, 2023, February 9, 2024, February 9, 2025 and February 9, 2026. The restricted stock units have no expiration date.

/s/ Hunter Smith, Attorney-in-02/11/2022 Fact for William T, Roberts

** 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.