FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

A / a a la i a a 4 a a	D C	20540
Vashington,	D.C.	20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response	. 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

1. Name and Address of Reporting Person* Mathers Edward T (Last) (First) (Middle)				<u>RH</u> 	Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM] Date of Earliest Transaction (Month/Day/Year)							<u>.</u> [(Ch	eck all appl X Direct	icable) or r (give title	g Pers	son(s) to Iss 10% Ow Other (s below)	wner	
1954 GREENSPRING DRIVE SUITE 600				06/	06/21/2023 4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable						
													Line) X Form filed by One Reporting Person					
(Street) TIMONI	UM M	D	21093									Form filed by More than One Reporting Person						
(City) (State) (Zip)				Ru	Rule 10b5-1(c) Transaction Indication Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.													
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date				ransaction e nth/Day/Yea	Execution Date,		3. Transaction Code (Instr. 2) 4. Securities Acquir Disposed Of (D) (Instr. 5) 5)			Securiti Benefic Owned	5. Amount of Securities Beneficially Owned Following		r Indirect 0 r Indirect 1 str. 4) 0	7. Nature of Indirect Beneficial Ownership				
						Code	v	Amount	unt (A) or (D)		Reporte Transac (Instr. 3	ction(s)			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	4. Transac	ction	5. Number n of		6. Date Exercisab Expiration Date (Month/Day/Year)		ole and 7. Title and Amount of		d f g Security	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable		piration te	Title	Amount or Number of Shares						
Stock Option (right to buy)	\$18.47	06/21/2023		A		14,000		(1)	06/	/20/2033	Common Stock	14,000	\$0.00	14,000		D		
Restricted Stock Units	(2)	06/21/2023		A		3,000		(3)		(3)	Common Stock	3,000	\$0.00	3,000		D		

Explanation of Responses:

- 1. The options fully vest upon the earlier of (i) June 21, 2024 or (ii) the date of the Issuer's next annual meeting of the stockholders, subject to the Reporting Person's continued service on such vesting date.
- $2. \ Each \ restricted \ stock \ unit \ represents \ a \ contingent \ right \ to \ receive \ one \ share \ of \ Issuer \ common \ stock.$
- 3. The restricted stock units fully vest upon the earlier of (i) June 21, 2024 or (ii) the date of the Issuer's next annual meeting of the stockholders, subject to the Reporting Person's continued service on such vesting date. The restricted stock units have no expiration date.

Remarks:

/s/ Louis Citron, attorney-in**fact**

** Signature of Reporting Person

Date

06/23/2023

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.