FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

hington,	D.C.	20549			

Washington, D.C. 20049	OMB APPR	OVAL	
STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP	OMB Number:	3235-	

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

OMB APPROVAL								
OMB Number: 3235-0287								
Estimated average burden								
hours per response: 0.5								

Name and Address of Reporting Person* Shulman Joseph				RH	2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]							Check	tionship of Reportin all applicable) Director Officer (give title		ng Person(s) to Is: 10% Ow Other (s		ner		
(Last) 222 BER	(Fir	st) (P	Middle)	<u>.</u>		3. Date of Earliest Transaction (Month/Day/Year) 03/21/2024								X	belov	below) Chief Technica		below)	
(Street) BOSTON (City)	N MA)2116 Zip)			4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicabl Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person										on			
						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 - No	on-Deriva	tive S	Secui	rities	Acc	quired	I, Dis	posed of	, or B	enefici	ially	Own	ed			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/				/Year) Execution		eemed ition Date, h/Day/Year)				Acquired (A) or f (D) (Instr. 3, 4 a		nd 5) Secur Benef		cially I Following	Forn (D) c	m: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price	Transaction(s (Instr. 3 and 4)		ction(s)			(Instr. 4)	
Common	Stock			03/21/20	024				S ⁽¹⁾		18,235	D \$40.3		4 ⁽²⁾ 30		30	D		
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)	erivative Conversion Date Execution Date, ecurity or Exercise (Month/Day/Year) if any			5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)					Ownershi Form: Direct (D) or Indirect (I) (Instr. 4	Ownership Form:	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	(A)	(D)	Date Exerci	sable	Expiration Date	Title	Amount or Number of Shares						

Explanation of Responses:

- 1. The sale reported in this Form 4 was effected pursuant to Rule 10b5-1 instruction adopted prior to February 27, 2023 solely with the intent to cover withholding taxes in connection with the vesting of certain previously reported restricted stock units.
- 2. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at per share prices ranging from \$40.00 to \$40.89. The Reporting Person undertakes to provide to the Issuer, any security holder of the Issuer or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.

/s/ Hunter Smith, attorney-infact for Joseph Shulman

03/22/2024

** 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.