FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations may continue. See

Instruction 1(b)

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Vashington, D	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

1. Name and Address of Reporting Person* Shulman Joseph							2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]								of Reportin icable) or r (give title	r		vner specify	
(Last) 222 BER	,	irst) ΓREET, 12TH F		3. Date of Earliest Transaction (Month/Day/Year) 12/27/2023								X below) `Chief Tech		below)				
(Street)						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
BOSTO	N M	A	02116											X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S	(State) (Zip)					Rule 10b5-1(c) Transaction Indication												
	X Check this box to indicate that a transaction was made pursuant satisfy the affirmative defense conditions of Rule 10b5-1(c). See										suant to a co See Instruc	ntract, instruction 10.	tion or writter	n plan that	is intende	ed to			
		Tab	le I - 1	Non-Deri	vative	Sec	urit	ies A	cquire	d, D	isposed o	of, or B	eneficia	lly Owne	d				
Da				Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and				ties cially I Following	6. Owner Form: Di (D) or In- (I) (Instr.	irect direct (4)	7. Nature of Indirect Beneficial Ownership	
					Code	v	Amount	(A) or (D)	Price		ed ction(s) 3 and 4)			(Instr. 4)					
Common Stock				12/27/2	023				M		2,400	A	\$21.3	3 6	5,141	D			
Common Stock 12/27/2					2023	23			S ⁽¹⁾		5,015	D	\$50.009	50.0092 ⁽²⁾ 1		D			
Common Stock 12/28/202					2023	.3		M		6,800	A	\$21.3	3 7	7,926					
Common Stock 12/28/202					2023	23			S ⁽¹⁾		7,926	D	\$50.002	3(3)	0				
		T	able l								sposed of , converti			y Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	emed tion Date, n/Day/Year)	4. Transa Code (8)				6. Date Exer Expiration D (Month/Day/		ate	7. Title a Amount Securiti Underlyi Derivati (Instr. 3	of es ng /e Security	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly Ow For Dir or (I)	rnership rm: ect (D) Indirect (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares						
Stock Option (Right to Buy)	\$21.38	12/27/2023			M			2,400	(4))	07/26/2030	Common Stock	2,400	\$0	82,600		D		

Explanation of Responses:

\$21.38

Stock Option (Right to

Buy)

1. The sale reported in this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on May 5, 2023

M

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 \$50.00 to \$50.08. 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

(4)

07/26/2030

6,800

- 3. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at per share prices ranging from \$50.00 to \$50.04. 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
- 4. The stock options were granted on July 27, 2020. 25% of the shares subject to the option vested and became exercisable on July 27, 2021 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.

/s/ Hunter Smith, Attorney-in-12/29/2023 Fact for Joseph Shulman

6,800

Stock

\$<mark>0</mark>

75,800

D

** 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).

12/28/2023

** 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.