SEC For	rm 4 FORM	4	UNIT	ED ST	ATES	S SECU				EXCHA	NGE	сомм	ISSI	ON				
			Washington, D.C. 20549												OMB APPROVAL			
Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).			STATEMENT OF CHANGES IN BENEFICIAL OWNERSI Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940									SHIF	כ	OMB Number: 3235-0287 Estimated average burden hours per response: 0.5				
	nd Address of	Reporting Person [°] <u>NN A.</u>	ın*			2. Issuer Name and Ticker or Trading Symbol <u>RHYTHM PHARMACEUTICALS, INC.</u> [<u>RYTM</u>]							5. Relationship of Reporting F (Check all applicable)				g Person(s) to Issuer 10% Owne	
(Last) 222 BER	(First) (Middle) RKELEY STREET,					3. Date of Earliest Transaction (Month/Day/Year) 08/12/2024								Officer (give title Other (speci below) below)				
12TH FI	LOOR			- 4. 11	 4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Apline) Individual or Joint/Group Filing (Check Apline) Form filed by One Reporting Person 								n					
BOSTO	N M	A	02116											Form file Person	d by More than One Reporting			rting
(City)	(S	tate)	(Zip)		- Rι 	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.										i to		
		Tal	ole I - I	Non-Deri	vative	e Securit	ies A	cquire	ed, C)isposed o	of, or E	Beneficia	lly O	wned				
1. Title of	Security (Inst	tr. 3)	2. Transaction Date (Month/Day/Ye			Execution Dat		3. Transa Code (8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an			Beneficiall Owned Fol		lly	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Direct ndirect r. 4)	7. Nature of Indirect Beneficial Ownership
								Code	v	Amount	(A) or (D)	Price	т	Reported Transaction Instr. 3 a				(Instr. 4)
Common Stock 08/12/20					2024			М		10,000	A	\$4.15		13,0	000	I)	
Common Stock 08/12/20					2024			S ⁽¹⁾		9,593	D	\$44.615	4 ⁽²⁾	3,4	07	Ι)	
Common Stock 08/12/202					2024	24				407	D	\$45.371	.3717 ⁽³⁾		00	Ι)	
			Table							sposed of s, converti			y Ow	ned				
1. Title of Derivative Security	e Conversion Date Execution Date,			5. Number ansaction of ode (Instr. Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)			of Securities D		Deri	Price of 9. Number of derivative security Securities		0	0. Wnership orm:	11. Natur of Indirec Beneficia		

(Instr. 3		(monunday) rear)	(Month/Day/Year)	8)		Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		(month, Day, real)		Derivative Security (Instr. 3 and 4)		(Instr. 5)	Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (right to buy)	\$4.15	08/12/2024		М			10,000	(4)	06/07/2032	Common Stock	10,000	\$0.00	10,000	D	

Explanation of Responses:

1. The sales reported in the Form 4 were effected pursuant to a Rule 10b5-1 instruction adopted on May 13, 2024.

2. The price reported is a weighted average price. The securities were sold in multiple transactions at per share prices ranging from \$44.32 to \$45.19. The Reporting Person undertakes to provide upon request the SEC staff, the Issuer, or any shareholder of the Issuer, full information regarding the number of securities sold at each separate price within the range set forth in this footnote.

3. The price reported is a weighted average price. The securities were sold in multiple transactions at per share prices ranging from \$45.35 to \$45.61. The Reporting Person undertakes to provide upon request the SEC staff, the Issuer, or any shareholder of the Issuer, full information regarding the number of securities sold at each separate price within the range set forth in this footnote.

4. The option is fully vested and exercisable.

<u>/s/ Hunter Smith, attorney-in-</u> <u>fact for Lynn A. Tetrault</u> <u>08/14/2024</u>

** 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.