FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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to Section 16	ox if no longer subject 6. Form 4 or Form 5 nay continue. <i>See</i> (b).	_	NT OF CHANGES IN BENEFICIAL OWN ed 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 Ad Lee Jennife	dress of Reporting Per e <u>r Kayden</u>	son [*]	2. Issuer Name and Ticker or Trading Symbol <u>RHYTHM PHARMACEUTICALS, INC.</u> [RYTM]	(Check all applica Director	able) 109	% Owner
(Last) 222 BERKEI	(First) LEY STREET, 12T	(Middle) H FLOOR	3. Date of Earliest Transaction (Month/Day/Year) 03/19/2024	below)	Estimated average burden hours per response: 0.5 Inship of Reporting Person(s) to Issuer applicable) 000000000000000000000000000000000000	
(Street) BOSTON	МА	02116	4. If Amendment, Date of Original Filed (Month/Day/Year)	Line) X Form file	ed by One Reporting F	Person
(City)	(State)	(Zip)	Rule 10b5-1(c) Transaction Indication		ion or written plan that is	intended to

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)
Common Stock	03/19/2024		S ⁽¹⁾		15,515	D	\$39.22 ⁽²⁾	25,087	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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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/Year)		Transaction of Code (Instr. Derivativ		vative nities nired r osed) r. 3, 4	6. Date Exerc Expiration Da (Month/Day/Y	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		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)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	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 \$39.07 to \$39.22. 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.



** Signature of Reporting Person

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.

fact for Jennifer Kayden Lee

Date