SEC Form 4	
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Instruction 1(b).

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB	APPROVAL
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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 Add Lee Jennife (Last)	<u>r Kayden</u> (First)	(Middle)	2. Issuer Name and Ticker or Trading Symbol <u>RHYTHM PHARMACEUTICALS, INC.</u> [RYTM] 3. Date of Earliest Transaction (Month/Day/Year) 03/20/2024		ttionship of Reporting Pe all applicable) Director Officer (give title below) EVP, Head of Nor	10% Owner Other (specify below)					
1			4. If Amendment, Date of Original Filed (Month/Day/Year)	ridual or Joint/Group Filir Form filed by One Rep Form filed by More tha Person	porting Person						
(City)	(State)	(Zip)	Rule 10b5-1(c) Transaction Indication Check this box to indicate that a transaction was made pursuant to satisfy the affirmative defense conditions of Rule 10b5-1(c). See 1	oursuant to a contract, instruction or written plan that is inter							
	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)			4. Securities Disposed Of			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	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	03/20/2024		S ⁽¹⁾		9,169	D	\$38.22 ⁽²⁾	15,918	D	
Common Stock	03/20/2024		S ⁽¹⁾		9,066	D	\$39.33 ⁽³⁾	6,852	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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		of Deriv Secu Acqu (A) of Dispo of (D)	posed D) str. 3, 4		piration Date Amount of onth/Day/Year) Securities			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			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 \$37.75 to \$38.68. 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.

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 \$38.75 to \$39.72. 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-in-Fact for Jennifer Kayden Lee 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.