SEC Form 4	
------------	--

 \square

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

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 OWNERSHIP

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* Lee Jennifer Kayden			<u>R</u>	2. Issuer Name and Ticker or Trading Symbol <u>RHYTHM PHARMACEUTICALS, INC.</u> [<u>RYTM</u>]					[(Check	ationship of Reporting Person(s) to Issuer k all applicable) Director 10% Owner Officer (give title Other (specif		
(Last) C/O RHYTH	(Last) (First) (Middle) C/O RHYTHM PHARMACEUTICALS, INC.			3. Date of Earliest Transaction (Month/Day/Year) 02/01/2024						below) below) EVP, Head of North America		
222 BERKELEY STREET, 12TH FLOOR			4.	4. If Amendment, Date of Original Filed (Month/Day/Year)				6. Indiv Line)	vidual or Joint/Group Filing (Check Applicable			
(Street) BOSTON	MA	02116								Form filed by Mor Person		
(City)	(State)	(Zip)	R	Rule 10b5-1(c) Transaction Indication								
		Table I - No	n-Derivativ	ve Securities Acq								
Date		2. Transaction Date (Month/Day/Y	Execution Date,		3. 4. Securities Acquired (A Transaction Code (Instr. 8)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
					Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock 02/01		02/01/202	24	М		4,513	Α	(1)	4,513	D		
Common Stock 02/01/		02/01/202	24	S ⁽²⁾		1,492	D	\$45.06	3,021	D		

Common Stock

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) 3. Transaction Date 3A. Deemed Execution Date 6. Date Exercisable and 7. Title and Amount of Securities 8. Price of Derivative 11. Nature 5. Number 9. Number of 10. 4. Transaction Code (Instr. 2. Conversion of Expiration Date (Month/Day/Year) derivative Ownership of Indirect Beneficial or Exercise Price of Security (Instr. 5) Form: Direct (D) (Month/Day/Year) if any Derivative Securities (Month/Day/Year) Underlying 8) Beneficially Ownership Securities Derivative Security (Instr. 3 and 4) Derivative Acquired Owned or Indirect (Instr. 4) (A) or Disposed Security Following (I) (Instr. 4) Reported of (D) (Instr. 3, 4 and 5) Transaction(s) (Instr. 4) Amount or Number Date Expiration (A) (D) Exercis Date Shares Code v Title Restricted Commo 02/01/2024 (3) (3) 4,513 13,537 4 513 \$<mark>0</mark> D Stock Μ Stock Units

Explanation of Responses:

1. Each restricted stock unit represents a contingent right to receive one share of Issuer common stock.

2. The sale reported in this Form 4 was effected pursuant to Rule 10b5-1 instruction solely with the intent to cover withholding taxes in connection with the vesting of certain previously reported restricted stock units

3. The restricted stock units vest or have vested as to 25% of the total shares on each of February 1, 2024. February 1, 2025. February 1, 2026 and February 1, 2027. The restricted stock units have no expiration date.

> /s/ Hunter Smith, Attorney-in-02/05/2024 Fact for Jennifer Kayden Lee

** 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.