FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
vvasimigton,	D.C.	20040

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* Lee Jennifer Kayden					<u>R</u> 1	2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]									k all appli Directo	cable)	g Pers	son(s) to Iss 10% Ov Other (s	wner
(Last) 222 BER	`	rst) (FREET, 12TH F	(Middle)		3. Date of Earliest Tran 11/08/2023					n (Mor	nth/Day/Year)			X	below)	below) EVP, Head of		below)	
(Street)	N M	A	02116		- 4. I	f Amer	idmer	nt, Date	of Orig	jinal Fi	iled (Month/D	ay/Year)		Line)	o. Individual or Joint/Group Filing (Check Application) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(Si	,	(Zip)	Jon Dori	X	Satisfy the diffinitions of the 1995 1(c). See historial 12.											ed to		
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day				ion	n 2A. Deemed Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 1)		i (A) or	5. Amount of Securities Beneficially Owned Follow		ınt of es ially Following	Form: Direct (D) or Indirect		7. Nature of Indirect Beneficial Ownership				
							Code	v	Amount	(A) or (D)	Price		Transac	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common Stock 11/08/20.			023	23			М		5,712	Α	\$6	5.8	7,	7,359		D			
Common Stock			11/08/2	2023				S ⁽¹⁾		3,479	D	\$28.6	5429 ⁽²⁾		3,880		D		
Common Stock 11/08/202			023	23		S ⁽¹⁾		2,233	D	\$29.3	129 ⁽³⁾	1,	1,647		D				
Common Stock 11/09/2			023	23		M		3,438	A	\$6	5.8	5,	5,085		D				
Common Stock 11/09/20					023	23		S ⁽¹⁾		1,719	D	\$27.3	712(4)	3,	3,366		D		
Common Stock 11/09/202					023	23		S ⁽¹⁾		1,719	D	\$2	28	1,647			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 4. 5. Number Execution Date, Transaction of				umber vative urities uired or posed D) tr. 3, 4	1 1					8 5 (1	Price of erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)	
		Code	v	(A)	(D)	Date Exercisable		Expiration Date	Amo or Num of Title Shai		ber								
Stock Option (Right to	\$6.8	11/08/2023			M			5,712	2 (5)		02/08/2032	Commo Stock	ⁿ 5,7	12	\$0	61,880		D	

Explanation of Responses:

\$6.8

11/09/2023

Stock Option

Buy)

(Right to

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 8, 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 \$28.04 to \$29.01. 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.

(5)

02/08/2032

3,438

- 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 \$29.04 to \$29.70. 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. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at per share prices ranging from \$26.86 to \$27.51. 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.
- 5. The stock options were granted on February 9, 2022. The options vest and become exercisable in 16 substantially equal installments upon the Reporting Person's completion of each three full months of successive service to the Issuer following the grant date.

/s/ Hunter Smith, Attorney-in-Fact for Jennifer Lee

3,438

Stock

\$<mark>0</mark>

11/13/2023

58,442

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).
- ** 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.