FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

lochington	D C	20E40	
<i>V</i> ashington,	D.C.	20549	

Check this box if no longer subject to

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Section 16. Form 4 or Form 5 obligations may continue. See Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940 Instruction 1(b)

Name and Address of Reporting Person* Lee Jennifer Kayden					RH	2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]								neck all appl Direct Office	or r (give title		10% Ov	vner	
(Last) 222 BER	,	rst) (FREET, 12TH F	(Middle) LOOR		3. Date of Earliest Transaction (Month/Day/Year) 08/07/2023								below	below) EVP, Head of Nor		below)	a		
(Street)	N M	Δ	02116		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)							Lin	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person					
	1 1 1 1				-									Form filed by More than One Reporting Person					
(City)	(St	tate)	(Zip)		Rule 10b5-1(c)) Tran	sac	ction Inc	dication	1						
					X 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.										ded to				
		Tabl	e I - N	on-Deriv	ative/	Sec	urit	ies Ad	quired	, Di	sposed (of, or Be	eneficia	lly Owne	d				
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4		d (A) or r. 3, 4 and	Benefic Owned	ties Fo cially (D I Following (I)		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership				
						Code	v	Amount	(A) or (D)	Price		ted action(s) 3 and 4)			(Instr. 4)				
Common Stock 08.		08/07/2	2023				М		8,591	A	\$6.8	14,517(1)			D				
Common Stock		08/07/2023				S ⁽²⁾		11,223	D	\$24.17	78 3,294		D						
Common Stock			08/09/2	2023				M		1,718	A	\$6.8	5	5,012		D			
Common Stock 08/09/20			2023)23			S ⁽²⁾		1,718	D	\$24.6	6 3	3,294		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)	Execut (ear) if any	emed ion Date, /Day/Year)		ansaction de (Instr.		ivative urities juired or posed D) tr. 3, 4	6. Date Exercis Expiration Dat (Month/Day/Ye		te	7. Title an Amount o Securities Underlyin Derivative (Instr. 3 a	of G G Security and 4)	8. Price of Derivative Security (Instr. 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 ct (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amount or Number of Shares						
Stock Option (Right to Buy)	\$6.8	08/07/2023			M			8,591	(3)		02/08/2032	Common Stock	8,591	\$0	73,909		D		

Explanation of Responses:

Stock Option

- $1.\ Includes\ 986\ shares\ acquired\ under\ Issuer's\ Employee\ Stock\ Purchase\ Plan\ on\ February\ 28,\ 2023.$
- 2. The sales reported in the Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on May 8, 2023.
- 3. 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.

(3)

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

1,718

\$0

Common

02/08/2032

08/09/2023

72,191

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).

08/09/2023

** 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.