FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OIVIB APPI	RUVAL
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

1. Name and Address of Reporting Person* <u>Lee Jennifer Kayden</u>						2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [ RYTM ]											cable) or (give title	ng Person(s) to Is 10% O Other ( below)		wner (specify
(Last) 222 BER	`	irst) ( FREET, 12TH F	(Middle) LOOR			3. Date of Earliest Transaction (Month/Day/Year) 11/03/2023										,	below) below) EVP, Head of North America			
(Street)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	dividual or Joint/Group Filing (Check A )  Form filed by One Reporting Pers				·	
BOSTO	N M	íA (	02116											Form	Form filed by More than One Reporting Person					
(City)	(S	tate) (	(Zip)		Rule 10b5-1(c) Transaction Indication															
						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.														
		Tabl	le I - Noi	n-Deriv	ative	Sec	uritie	es Ac	quire	d, D	isp	osed c	of, or E	Ben	eficial	ly Owne	d			
1. Title of Security (Instr. 3)  2. Trans Date (Month/					ar) E	2A. Deemed Execution Date, if any (Month/Day/Yea		Code (Instr							Benefici	es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Со	de V		Amount	(A) (D)	or	Price	Transac (Instr. 3	tion(s)			ou +/
Common	on Stock 11/03/			3/2023	/2023			N	Л		80 A		\$6.8	1,	1,727		D			
Common	Stock			11/03	3/2023	3			S <sup>(</sup>	[1)		80	]	D \$28 1,647 D				D		
		Т										sed of, onverti				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,	4. Transaction Code (Instr. 8)				6. Date Exercisal Expiration Date (Month/Day/Year				7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)		e es ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	sable	Ex Da	piration ite	Title	0 0	amount or lumber of Shares					
Stock Option (Right to	\$6.8	11/03/2023			M			80	(2)	)	02	/08/2032	Commo Stock	n	80	\$0	67,59	2	D	

## **Explanation of Responses:**

- 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.
- 2. 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

11/07/2023

\*\* 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.