SEC Form 4 FORM 4 UN	ITED STA	TES S					GE CO	ommis	SION			
Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).		1 pursual	F CHANGES nt to Section 16(a) of the In	S IN I	BEN ecuriti	IEFICIAL es Exchange A	Act of 19		Esti	OMB APPRC 3 Number: mated average burc rs per response:	3235-0287	
1. Name and Address of Reporting Person [*] Chien Jennifer	2. Issuer Name and Ticker or Trading Symbol <u>RHYTHM PHARMACEUTICALS, INC.</u> [<u>RYTM</u>]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) below)				
(Last)(First)(MidC/O RHYTHM PHARMACEUTICALS222 BERKELEY STREET, 12TH FLOOR	3. Date of Earliest Transaction (Month/Day/Year) 02/11/2023							EVP, Head of North America				
(Street) BOSTON MA 021	16	4. If Ar	. If Amendment, Date of Original Filed (Month/Day/Year)					6. Indiv Line) X	Form filed by Or	ne Reporting Pers	Filing (Check Applicable Reporting Person e than One Reporting	
(City) (State) (Zip)												
Table I	- Non-Deriva	ative S	ecurities Acq	uired,	Dis				Owned	-		
1. Title of Security (Instr. 3) 2. Trans. Date (Month/I			2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities A Disposed Of (5)	Acquired (D) (Instr.	(A) or 3, 4 and	5. Amount of Securities Beneficially Owned Following Reported	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	02/11/	2023		М		2,031	Α	(1)	5,575	D		
Common Stock	02/14/	2023		S ⁽²⁾		635	D	\$26.87	4,940	D		

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

<u> </u>															
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 Deri Secu Acq (A) o Disp of (E	osed)) tr. 3, 4	6. Date Exerc Expiration Da (Month/Day/Y	ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		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	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Restricted Stock Units	(1)	02/11/2023		М			2,031	(3)	(3)	Common Stock	2,031	\$ <mark>0</mark>	4,062	D	

Explanation of Responses:

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

2. The sales reported in the Form 4 was effected pursuant to a 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 11, 2022, February 11, 2023, February 11, 2024 and February 11, 2025. The restricted stock units have no expiration date.

/s/ Hunter Smith, Attorney-in-Fact for Jennifer Chien 02/14/2023

** 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.