SEC For	m 4 FORM	4	UNITE	) STA	TES	S SE	CUR	ITIE	ES AND	ЕХСНА	NGE C	оммі	SSION				
-						Washington, D.C. 20549								OMB APPROVAL			
Section 16. Form 4 or Form 5 obligations may continue. See						Pursuant to Section 16(a) of the Securities Exchange Act of 1934									OMB Number: 3235-0287 Estimated average burden hours per response: 0.5		
									Ínvestment C								
1. Name and Address of Reporting Person <sup>*</sup> <u>Chien Jennifer</u>						2. Issuer Name and Ticker or Trading Symbol <u>RHYTHM PHARMACEUTICALS, INC.</u> [ RYTM ]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify			wner	
	t) (First) (Middle) RHYTHM PHARMACEUTICALS, INC BERKELEY STREET, 12TH FLOOR					Delow)									below) North Americ	a	
(Street)	treet)				4.1	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individ Line) X							e)	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person			
(City)			(Zip)		Form filed by More than One Reporting Person										rting		
		Tab	le I - Nor	n-Deriv	ativ	e Se	curities	s Ac	quired, Di	sposed o	of, or Be	neficiall	y Owned				
1. Title of Security (Instr. 3) Date (Month/D						Execution Date,			, Transaction Disposed C Code (Instr. 5)		ties Acquired (A) or d Of (D) (Instr. 3, 4 and		5. Amou Securitie Beneficia Owned F	s Form ally (D) o ollowing (I) (II	Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
									Code V	Amount	(A) or (D)	Price	Reported Transact (Instr. 3 a	ion(s)		(Instr. 4)	
	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)	erivative Conversion Date ocurity or Exercise (Month/Day/Yea			d Date,	4. Transaction Code (Instr. 8)		5. Number		6. Date Exercisable and Expiration Date (Month/Day/Year)		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)	y 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)	02/01/2023			A		18,050		(2)	(2)	Common Stock	18,050	\$0	18,050	D		
Stock Option (Right to Buy)	\$27.35	02/01/2023			Α		46,900		(3)	01/31/2033	Common Stock	46,900	\$0	46,900	D		

Explanation of Responses:

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

2. The restricted stock units vest 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. 3. The stock options were granted on February 1, 2023. 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-02/03/2023 Fact for Jennifer Chien

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 $^{\ast}$  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.