SEC For	rm 4																			
FORM 4			UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549																	
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										SHIP	OMB	OMB Number: 3235-0287 Estimated average burden		3235-0287		
1. Name and Address of Reporting Person <sup>*</sup> Chien Jennifer					<u>R</u>	2. Issuer Name and Ticker or Trading Symbol <u>RHYTHM PHARMACEUTICALS, INC.</u> [ RYTM ]									able)	ıg Pers	10% O Other (:	vner		
(Last) 222 BER	(F RKELEY ST	(Middle) FLOOR			3. Date of Earliest Transaction (Month/Day/Year) 11/09/2020								EVP, Head of North America				1			
(Street) BOSTON MA			02116		= 4. =	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City) (State) (Zip)																				
		Та	ble I - Non	n-Deri	vativ	ve Se	ecurities	s Ac	quired	, Dis	sposed o	of, or Be	neficial	ly Owned						
Dat				2. Tran Date (Month			2A. Deemed Execution Date, if any (Month/Day/Year)		Code	Transaction Disposed		ities Acquired (A) or d Of (D) (Instr. 3, 4 and		Beneficia Owned F Reported	s Illy ollowing	Form (D) or	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount	(A) c (D)	Price	Transact (Instr. 3 a							
			Table II - I (								oosed of, converti			Owned						
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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date E Expiratio (Month/D	n Dat		7. Title and Amc of Securities Underlying Derivative Secu (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Numb derivativ Securitie Beneficia Owned Followin Reported Transact	re es ally g d	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership t (Instr. 4)		
				c	Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares	nt (Ir er	(Instr. 4)					
Stock Option (Right to Buy)	\$24.29	11/09/2020			A		100,000		(1)		11/08/2030	Common Stock	100,00	) \$0	100,0	000	D			

Explanation of Responses:

1. The stock options were granted on November 9, 2020. 25% of the shares subject to the option will vest and become exercisable on November 9, 2021 and the remaining 75% of the shares subject to the option shall vest and become exercisable in 12 substantially equal installments upon the Reporting Person's completion of each three full months of successive service to the Issuer thereafter.

/s/ Hunter Smith, attorney-infact for Longifue Ching 11/10/2020

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.