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(h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* <u>Van der Ploeg Leonardus H.T.</u>						2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title below) below)				
(Last) (First) (Middle) 500 BOYLSTON STREET, 11TH FLOOR						3. Date of Earliest Transaction (Month/Day/Year) 02/13/2019								hief Scie	ntific	below) Officer		
(Street) BOSTON MA 02116 (City) (State) (Zip)				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					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
Date				Transaction te onth/Day/Y	Execution Date			3. Transacti Code (Ins	on Dis	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)			Benefici	es ally Following	Form (D) o	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code V	An	nount	(A) or (D) Price		Transac (Instr. 3	tion(s)				
		٦	Γable II - Dei (e.ç					uired, Dis , options,					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/Yea	Code				6. Date Exerc Expiration D (Month/Day/	ate	of Securities		ies g Security	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s Illy	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code	v	(A) (D)		Date Exercisable	Expira Date	ation	Title	Amount or Number of Shares						
Employee Stock Option (Right to	\$29.78	02/13/2019		A		70,000		(1)	02/12	2/2029	Common Stock	70,000	\$0	70,00	0	D		

Explanation of Responses:

1. This option was granted on February 13, 2019 and the shares underlying this option vest in sixteen equal quarterly installments beginning on May 13, 2019.

/s/ Hunter S. Smith, attorneyin-fact for Leonardus H.T. Van 02/15/2019 der Ploeg

** 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.