(Street) TIMONIUM

(City)

(Last)

SUITE 600

MD

(State)

(First)

1. Name and Address of Reporting  $\mathsf{Person}^*$ 

1954 GREENSPRING DRIVE

NEA 13 GP, Ltd

21093

(Zip)

(Middle)

FORM 3

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

OMB APPROVAL

OMB Number: 3235-0104

Estimated average burden hours per response: 0.5

		;	SECURITIES			hours pe	r response: 0.5	
	Filed pursua or Se	ant to Section ection 30(h) o	16(a) of the Securities Exchange of the Investment Company Act of 1	Act of 1934 1940				
1. Name and Address of Reporting Person*  NEW ENTERPRISE ASSOCIATION 13 LP	2. Date of Eve Requiring Sta (Month/Day/Y) 10/04/2017	tement	3. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [ RYTM ]					
(Last) (First) (Middle) 1954 GREENSPRING DRIVE			4. Relationship of Reporting Person(s) to Issu (Check all applicable)      Director X 10% Own      Officer (give title Other (sp.		(Moi	5. If Amendment, Date of Original Filed Month/Day/Year) 5. Individual or Joint/Group Filing (Check		
SUITE 600			below)	below)		licable Line)	by One Reporting Person	
(Street) TIMONIUM MD 21093					Х	Form filed b	y More than One	
(City) (State) (Zip)								
	Table I - No	on-Deriva	tive Securities Beneficia	lly Owned	,			
1. Title of Security (Instr. 4)			2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownersh Form: Direct or Indirect ( (Instr. 5)	t (D)   (Instr	lature of Indirect Beneficial Ownership str. 5)		
Common Stock			29,378(1)	<b>D</b> <sup>(2)</sup>				
			ve Securities Beneficially ants, options, convertible		s)			
1. Title of Derivative Security (Instr. 4)	2. Date Exer Expiration D (Month/Day/	ate	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise	5. Ownership Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)		
Series A Preferred Stock	(3)	(3)	Common Stock	1,402,870	(3)	<b>D</b> <sup>(2)</sup>		
Series A-1 Junior Preferred Stock	(3)	(3)	Common Stock	2,927,708	(3)	D <sup>(2)</sup>		
1. Name and Address of Reporting Person*  NEW ENTERPRISE ASSOCIATION  NEW ENTERPRISE A	ΓΕS 13 LP							
(Last) (First) 1954 GREENSPRING DRIVE SUITE 600	(Middle)							
(Street) TIMONIUM MD 21093								
(City) (State) (Zip)								
1. Name and Address of Reporting Person*  NEA Partners 13, Limited Partners	<u>ership</u>							
(Last) (First) 1954 GREENSPRING DRIVE SUITE 600	(Middle)							

(Street) TIMONIUM	MD	21093
(City)	(State)	(Zip)

## **Explanation of Responses:**

- 1. Reflects a 1-for-9.17 reverse split effective as of September 29, 2017.
- 2. The securities are directly held by New Enterprise Associates 13, L.P. ("NEA 13") and are indirectly held by NEA Partners 13, L.P. ("NEA Partners 13"), the sole general partner of NEA 13, NEA 13 GP, LTD ("NEA 13 LTD"), the sole general partner of NEA Partners 13 and each of the individual directors of NEA 13 LTD (NEA Partners 13, NEA 13 LTD and the individual directors of NEA 13 LTD (collectively, the "Directors") together, the "Indirect Reporting Persons"). The Directors of NEA 13 LTD are M. James Barrett, Peter J. Barris, Forest Baskett, Patrick J. Kerins, David M. Mott, Scott D. Sandell and Ravi Viswanathan. The Indirect Reporting Persons disclaim beneficial ownership within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, or otherwise of such portion of the NEA 13 securities in which the Indirect Reporting Persons have no pecuniary interest.
- 3. Each share of Series A Convertible Preferred Stock and Series A-1 Junior Preferred Stock is convertible, at any time, at the holder's election, into Common Stock of the Issuer on a 9.17-for-one basis. In addition, effective upon the closing of the Issuer's initial public offering of its Common Stock, each share of preferred stock will automatically convert on a 9.17-for-one basis without payment of consideration. The preferred stock has no expiration date.

## Remarks:

/s/ Sasha Keough, attorney-in-10/04/2017 fact

\*\* 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 5 (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.