FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-028							
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0.5

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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

					OI C	JCCIIOII	00(11)	or tile i	IIVCStille	JIIL OC	ilipally Act t	31 13-10							
1. Name and Address of Reporting Person*					2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [ RYTM ]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
Gottesdiener Keith Michael													Oire	ctor	10%	Owner			
(Last) (First) (Middle)						-								_  :	Offic belo	er (give title w)	Othe belov	r (specify v)	
					3. Date of Earliest Transaction (Month/Day/Year) 03/13/2019								CEO & President						
500 BOYLSTON STREET, 11TH FLOOR				03/	03/13/2017														
(Street) BOSTON MA 02116					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
														- 1	,	rm filed by One Reporting Person			
(City)	(St	ate) (	Zip)		-										Form filed by More than One Reporting Person				
		Tabl	e I - No	on-Deriva	ative	Seci	uritie	s Ac	quired	l, Dis	sposed o	f, or B	Bene	ficial	y Own	ed			
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/						Execution Date,		Date,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4				Secur	icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount	(A) or (D)	r P	ice	Trans	action(s) 3 and 4)		(Instr. 4)		
Common Stock 03/13/20					019		<b>S</b> <sup>(1)</sup>		7,782	D	\$	30.06 <sup>0</sup>	2) 51	8,138(3)	D				
Common Stock 03/14/20					019		S <sup>(4)</sup>		1,506	D	\$	30.05	5) 5	16,632	D				
		Та	ıble II -								osed of, convertib				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, if any		4. Γransa Code ( 3)				6. Date Expirati (Month/	ion Da		7. Title and Amount of Securities Underlying Derivative Security (Inst and 4)		Der Sec (Ins	Price of erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
													or Num						

## **Explanation of Responses:**

1. On March 13, 2019, Mr. Gottesdiener sold 7,782 shares pursuant to a plan of disposition adopted in accordance with Rule 10b5-1 of the Securities Exchange Act of 1934, as amended.

(D)

2. This transaction was executed in multiple trades at prices ranging from \$30.00 to \$30.20, inclusive; the price reported above reflects the weighted average sale price. Mr. Gottesdiener hereby undertakes to provide to the Securities and Exchange Commission staff, the issuer or any security holder of the issuer, upon request, full information regarding the number of shares and prices at which the transaction was effected.

Date

Expiration

Title

Shares

- 3. Includes 303 shares acquired under the issuer's 2017 Employee Stock Purchase Plan on February 28, 2019.
- 4. On March 14, 2019, Mr. Gottesdiener sold 1,506 shares pursuant to a plan of disposition adopted in accordance with Rule 10b5-1 of the Securities Exchange Act of 1934, as amended.
- 5. This transaction was executed in multiple trades at prices ranging from \$30.00 to \$30.50, inclusive; the price reported above reflects the weighted average sale price. Mr. Gottesdiener hereby undertakes to provide to the Securities and Exchange Commission staff, the issuer or any security holder of the issuer, upon request, full information regarding the number of shares and prices at which the transaction was effected.

/s/ Keith M. Gottesdiener 03/15/2019

\*\* 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.