SEC Form 4	
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## FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	Check this box if no longer subject to
1	Section 16. Form 4 or Form 5
	obligations may continue. See
	Instruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burg	den							
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1 I Nume and Address of Reporting Leson			2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>RHYTHM PHARMACEUTICALS, INC.</u> [		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
(Last) (First) (Middle)		(Middle)	RYTM ]     3. Date of Earliest Transaction (Month/Day/Year)     02/26/2019		Director Officer (give title below) CEO and Pro	10% Owner Other (specify below) esident				
(Street) BOSTON (City)	MA (State)	02116 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Ind Line) X	ividual or Joint/Group Fili Form filed by One Re Form filed by More th Person	porting Person				

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code ( 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)
Common Stock	02/26/2019		<b>S</b> <sup>(1)</sup>		635	D	\$30.13 <sup>(2)</sup>	527,431	D	
Common Stock	02/27/2019		<b>S</b> <sup>(3)</sup>		1,814	D	<b>\$30.01</b> <sup>(4)</sup>	525,617	D	

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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerc Expiration Da (Month/Day/Y	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)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v			Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

#### Explanation of Responses:

1. On February 26, 2019, Mr. Gottesdiener sold 635 shares pursuant to a plan of disposition adopted in accordance with Rule 10b5-1 of the Securities Exchange Act of 1934, as amended.

2. This transaction was executed in multiple trades at prices ranging from \$30.01 to \$30.14, 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.

On February 27, 2019, Mr. Gottesdiener sold 1,814 shares pursuant to a plan of disposition adopted in accordance with Rule 10b5-1 of the Securities Exchange Act of 1934, as amended.
This transaction was executed in multiple trades at prices ranging from \$30.00 to \$30.09, 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

\*\* Signature of Reporting Person

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.

02/28/2019 Date