

Check this box if no longer subject to 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

<p>1. Name and Address of Reporting Person*</p> <p><u>RA CAPITAL MANAGEMENT, LLC</u></p> <hr/> <p>(Last) (First) (Middle)</p> <p><u>20 PARK PLAZA, SUITE 1200</u></p> <hr/> <p>(Street)</p> <p><u>BOSTON MA 02116</u></p> <hr/> <p>(City) (State) (Zip)</p>	<p>2. Issuer Name and Ticker or Trading Symbol</p> <p><u>Ra Pharmaceuticals, Inc. [RARX]</u></p> <p>3. Date of Earliest Transaction (Month/Day/Year)</p> <p><u>06/11/2019</u></p> <p>4. If Amendment, Date of Original Filed (Month/Day/Year)</p>	<p>5. Relationship of Reporting Person(s) to Issuer (Check all applicable)</p> <p><input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner</p> <p>Officer (give title below) Other (specify below)</p> <p>6. Individual or Joint/Group Filing (Check Applicable Line)</p> <p><input checked="" type="checkbox"/> Form filed by One Reporting Person</p> <p><input checked="" type="checkbox"/> Form filed by More than One Reporting Person</p>
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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. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			

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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		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	(A)	(D)	Date Exercisable	Expiration Date						Title
Director Options to Purchase Common Stock (right to buy)	\$19.88	06/11/2019		A		15,000		(I)	06/11/2029	Common Stock	115,000	\$0	15,000	I	See footnote ⁽²⁾⁽³⁾

<p>1. Name and Address of Reporting Person*</p> <p><u>RA CAPITAL MANAGEMENT, LLC</u></p> <hr/> <p>(Last) (First) (Middle)</p> <p><u>20 PARK PLAZA, SUITE 1200</u></p> <hr/> <p>(Street)</p> <p><u>BOSTON MA 02116</u></p> <hr/> <p>(City) (State) (Zip)</p>

1. Name and Address of Reporting Person*		
RA Capital Healthcare Fund LP		
(Last)	(First)	(Middle)
C/O RA CAPITAL MANAGEMENT, LLC		
20 PARK PLAZA, SUITE 1200		
(Street)		
BOSTON	MA	02116
(City) (State) (Zip)		
1. Name and Address of Reporting Person*		
Kolchinsky Peter		
(Last)	(First)	(Middle)
C/O RA CAPITAL MANAGEMENT, LLC		
20 PARK PLAZA, SUITE 1200		
(Street)		
BOSTON	MA	02116
(City) (State) (Zip)		

Explanation of Responses:

- On June 11, 2019, the Reporting Person was granted an option to purchase 15,000 shares of Common Stock. The option shall vest and become exercisable in a single annual installment upon the earlier of (i) the first anniversary of the grant date of June 11, 2019 or (ii) the Issuer's annual meeting of shareholders in 2020.
- The reported securities are held directly by Rajeev Shah, an employee of RA Capital Management, LLC (the "Adviser") and he serves as the Adviser's board representative to the Issuer. The reported securities are held for the benefit of RA Capital Healthcare Fund, L.P. (the "Fund") and a separately managed account (the "Account"). The Adviser is the general partner of the Fund and the investment manager of the Account. Peter Kolchinsky is the sole manager of the Adviser. The Adviser and Dr. Kolchinsky may be deemed indirect beneficial owners of the option. The Adviser and Dr. Kolchinsky disclaim beneficial ownership of the reported securities in reliance on Rule 16a-1(a)(1)(v) and (vii) and disclaim any obligation to file reports under Section 16 other than as directors by deputization.
- The Adviser and Dr. Kolchinsky have no pecuniary interest in the reported securities held in the separately managed account (the "Account") and disclaim: (A) beneficial ownership thereof for purposes of Rule 16a-1(a)(2) and (B) beneficial ownership of securities held by the Fund, for purposes of Rule 16a-1(a)(2), except to the extent of their pecuniary interest therein.

/s/ Peter Kolchinsky, Manager
of RA Capital Management, 06/13/2019
LLC

/s/ Peter Kolchinsky, Manager
of RA Capital Management,
LLC, the General Partner of 06/13/2019
RA Capital Healthcare Fund,
L.P.

/s/ Peter Kolchinsky, 06/13/2019
individually

** 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.