

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

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

Check this box to indicate that a
transaction was made pursuant to a
contract, instruction or written plan for
the purchase or sale of equity
securities of the issuer that is intended
to satisfy the affirmative defense
conditions of Rule 10b5-1(c). See
Instruction 10.

1. Name and Address of Reporting Person* <u>RA CAPITAL MANAGEMENT, L.P.</u> (Last) (First) (Middle) <u>200 BERKELEY STREET 18TH FLOOR</u> (Street) <u>BOSTON MA 02116</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Vor Biopharma Inc.</u> [<u>VOR</u>] Foreign Trading Symbol 3. Date of Earliest Transaction (Month/Day/Year) <u>08/24/2026</u> 4. If Amendment, Date of Original Filed (Month/Day/Year)	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director ☒ 10% Owner Officer (give title below) Other (specify below) 6. Individual or Joint/Group Filing (Check Applicable Line) ☒ Form filed by One Reporting Person ☐ Form filed by More than One Reporting Person
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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			
Common Stock	08/24/2026		M		1,500 ⁽¹⁾	A	\$3.736 ⁽¹⁾	1,500	I	See footnotes ⁽²⁾⁽³⁾
Common Stock								4,501,882	I	See footnotes ⁽²⁾⁽⁴⁾

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	Amount or Number of Shares				
Stock Option (Right to Buy)	\$3.736 ⁽¹⁾	08/24/2026		M			1,500 ⁽¹⁾	⁽⁵⁾	08/26/2026	Common Stock	1,500 ⁽¹⁾	\$0	0	I	See Footnotes ⁽²⁾⁽³⁾

1. Name and Address of Reporting Person* <u>RA CAPITAL MANAGEMENT, L.P.</u> (Last) (First) (Middle) <u>200 BERKELEY STREET 18TH FLOOR</u> (Street) <u>BOSTON MA 02116</u> (City) (State) (Zip)
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1. Name and Address of Reporting Person* <u>RA Capital Healthcare Fund LP</u> (Last) (First) (Middle) <u>200 BERKELEY STREET, 18TH FLOOR</u> (Street) <u>BOSTON MA 02116</u> (City) (State) (Zip)

1. Name and Address of Reporting Person* <u>Kolchinsky Peter</u>

(Last)	(First)	(Middle)
C/O RA CAPITAL MANAGEMENT, L.P.		
200 BERKELEY STREET, 18TH FLOOR		
(Street)		
BOSTON	MA	02116
(City)	(State)	(Zip)

1. Name and Address of Reporting Person*

Shah Rajeev M.

(Last)

(First)

(Middle)

C/O RA CAPITAL MANAGEMENT, L.P.

200 BERKELEY STREET, 18TH FLOOR

(Street)

BOSTON

MA

02116

(City)

(State)

(Zip)

Explanation of Responses:

1. On September 18, 2025, the Issuer effected a 1-for-20 reverse stock split. The exercise price and number of shares underlying the stock option give effect to the reverse stock split.
2. RA Capital Management, L.P. (the "Adviser") is the investment manager for RA Capital Healthcare Fund, L.P. (the "Fund"). The general partner of the Adviser is RA Capital Management GP, LLC (the "Adviser GP"), of which Dr. Peter Kolchinsky and Mr. Rajeev Shah are the managing members. Each of the Adviser, the Adviser GP, the Fund, Dr. Kolchinsky and Mr. Shah disclaims beneficial ownership of any of the reported securities, except to the extent of its or his respective pecuniary interest therein.
3. This option was granted to Joshua Resnick pursuant to the Issuer's non-employee director compensation policy. Under Mr. Resnick's arrangement with the Adviser, Mr. Resnick held the option for the benefit of the Fund. Mr. Resnick is obligated to turn over to the Adviser any stock received upon exercise of the option, which will offset advisory fees owed by the Fund to the Adviser. The Reporting Persons therefore disclaim beneficial ownership of the option and underlying common stock.
4. Held directly by the Fund.
5. Immediately exercisable.

<u>/s/ Peter Kolchinsky, Manager of RA Capital Management, L.P.</u>	<u>08/26/2026</u>
<u>/s/ Peter Kolchinsky, Manager of RA Capital Healthcare GP, LLC, the General Partner of RA Capital Healthcare Fund, L.P.</u>	<u>08/26/2026</u>
<u>/s/ Peter Kolchinsky, individually.</u>	<u>08/26/2026</u>
<u>/s/ Rajeev Shah, individually.</u>	<u>08/26/2026</u>
** 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.