(City)

(Zip)

FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
hours per response:	0.5								

7. Nature of Indirect Beneficial Ownership (Instr. 4)

11. Nature of Indirect Beneficial Ownership (Instr. 4)

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

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1. Name and Address of Reporting Person*  RA CAPITAL MANAGEMENT, L.P.						2. Issuer Name <b>and</b> Ticker or Trading Symbol Vor Biopharma Inc. [ VOR ]										5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director X 10% Owner								
(Last)	•	First) FREET, 18TH F	(Middle)				e of Earliest Transaction (Month/Day/Year) /2022									Offic belo	Other below	Other (specify elow)						
							4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line)							
(Street)	N M	1A	02116		_										X	For	m filed by Mor		Reporting Person than One Reporting					
(City)	(5	State)	(Zip)																					
		Ta	able I - No	_							_					_				7. Natu				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					2A. Deemed Execution Dated if any (Month/Day/Ye		te,	3. Transac Code (II 8)	ction Dispos		urities Acquired (A) sed Of (D) (Instr. 3, 4			Secur Benef	icially d Following	Form: (D) or	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)							
										Code	v .	Amoun	t (A (D	) or P	rice	Trans	action(s) 3 and 4)			(Instr. 4				
			Table II -										f, or Be tible se			wned	l							
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution D if any (Month/Day/	ate,	4.	action	5. Num of Derivat Securit Acquire (A) or Dispos of (D) (I 3, 4 and	ber ive ies ed ed nstr.	6. Da	ate Exerciration D nth/Day/	cisable ate		7. Title ar of Securi Underlyin Derivativ (Instr. 3 a	nd Amou ities ng e Securi	int 8. I De Se	Price of rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction( (Instr. 4)	Ow For Dire or I (I) (	nership	11. Natu Indirect Benefici Ownersi (Instr. 4)				
					Code	v	(A) (D)			Date Exercisable		ration	Title	Amou or Numb of Share	er									
Stock Option (Right to Buy)	\$4.26	06/14/2022			A		16,911			(2)	06/13	3/2032	Common Stock	16,9	11	\$0.00	16,911		I	See footi				
		f Reporting Person*  MANAGEME				•							•				-	,						
(Last) 200 BEI	RKELEY S	(First) FREET, 18TH F	(Middl	le)																				
(Street) BOSTON MA 02116																								
(City)		(State)	(Zip)																					
		f Reporting Person <sup>*</sup> lthcare Fund																						
(Last) 200 BEI	RKELEY S	(First) ΓREET, 18TH F	(Middl	le)																				
(Street)	N	MA	0211	6		,																		
(City)		(State)	(Zip)																					
	nd Address o	f Reporting Person*	k																					
		(First) MANAGEMEN FREET, 18TH F		le)																				
(Street)	N	МА	0211	6																				

I	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. RA Capital Management, L.P. (the "Adviser") is the investment manager for RA Capital Healthcare Fund, L.P. (the "Fund") and RA Capital Nexus Fund, L.P. (the "Nexus 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. The Adviser, the Adviser GP, Dr. Kolchinsky, and Mr. Shah disclaim beneficial ownership of any of the reported securities, except to the extent of their pecuniary interest therein.
- 2. This option was granted to Joshua Resnick, a Managing Director of the Adviser who serves on the Issuer's board of directors, pursuant to the Issuer's non-employee director compensation policy. The shares underlying the option vest and become exercisable on the earlier of (i) June 14, 2023 or (ii) the Issuer's next annual meeting of stockholders following the grant date, in each case, subject to Mr. Resnick's continued service as a director through such date.
- 3. Under Mr. Resnick's arrangement with the Adviser, Mr. Resnick holds the option for the benefit of the Fund and the Nexus Fund. Mr. Resnick is obligated to turn over to the Adviser any net cash or stock received upon exercise of the option, which will offset advisory fees owed by the Fund and the Nexus Fund to the Adviser. The Reporting Persons therefore disclaim beneficial ownership of the option and underlying common stock.

## Domarke

Mr. Joshua Resnick, a Managing Director of the Adviser, serves on the Issuer's board of directors.

/s/ Peter Kolchinsky, Manager of RA Capital Management, 06/17/2022 L.P. /s/ Peter Kolchinsky, Manager of RA Capital Healthcare Fund GP, LLC the General Partner of 06/17/2022 RA Capital Healthcare Fund, L.P. /s/ Peter Kolchinsky, 06/17/2022 <u>individually</u> /s/ Rajeev Shah, individually 06/17/2022 \*\* 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.