SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13D/A

Under the Securities Exchange Act of 1934 (Amendment No. 1)*

(Amendment No. 1)*
Aerovate Therapeutics, Inc.
(Name of Issuer)
Common Stock, par value \$0.0001 per share
(Title of Class of Securities)
008064107
(CUSIP Number)
RA Capital Management, L.P.
200 Berkeley Street, 18 th Floor
Boston, MA 02116
Attn: Peter Kolchinsky
Telephone: 617.778.2500
(Name, Address and Telephone Number of Person
Authorized to Receive Notices and Communications)
June 26, 2023
(Date of Event Which Requires Filing of this Statement)
If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§ 240.13d-1(e), 240.13d-1(g), check the following box. \Box
Note : Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Section 240.13d-7 for other parties to whom copies are to be sent.
* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.
The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934, as amended ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

_	T T	O T	n			~	00			\sim	_
()	H	SI	PΙ	٧c)	()(າຂເ	164	11	()	/

1.	Names of Reporting Persons.									
	RA	. Capita	al Management, L.P.							
2.	(a)		Appropriate Box if a Member of a Group (See Instructions) o							
	(b)		0							
3.	3. SEC Use Only									
4.	4. Source of Funds (See Instructions) AF									
5.	Ch	eck if D	isclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) o							
6.		izenship laware	o or Place of Organization							
		7.	Sole Voting Power 0							
Number Share Benefici	s ally	8.	Shared Voting Power 8,293,148							
Owned Each Reporti	ing	9.	Sole Dispositive Power 0							
Person V	Vith	10.	Shared Dispositive Power 8,293,148							
11.	_	gregate 93,148	Amount Beneficially Owned by Each Reporting Person							
12.	Ch	eck if th	ne Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) o							
13.	Per 30		Class Represented by Amount in Row (11)							
14.		pe of Re	porting Person (See Instructions)							

¹ The Reporting Person is the beneficial owner of 8,263,982 shares of the Issuer's Common Stock as well as conversion shares underlying each of 27,777 vested stock options (right to buy), and 1,389 stock options (right to buy) which shall vest within 60 days of this filing held by Dr. Joshua Resnick for the benefit of RA Capital. The percentage calculation assumes that there are 27,630,264 outstanding shares of Common Stock of the Issuer, based on 27,601,098 outstanding shares of Common Stock of the Issuer based on the Issuer's Form 8-K filed with the Securities and Exchange Commission ("SEC") on June 21, 2023, and giving effect to stock options referenced herein.

CHISID	Nο	በበደበ	6/107

1.	Names of Reporting Persons.								
	Peter Ko	lchinsky							
2.	Check th (a) (b)	e Appropriate Box if a Member of a Group (See Instructions) o 0							
3.	SEC Use								
4.		f Funds (See Instructions)							
5.		Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) o							
6.	Citizensl United S	ip or Place of Organization tates							
	7.	Sole Voting Power 0							
Number Shares Beneficia	s 8.	Shared Voting Power 8,293,148							
Owned Each Reporti	9. ng	Sole Dispositive Power 0							
Person V	Vith 10.	Shared Dispositive Power 8,293,148							
11.	Aggregar 8,293,14	e Amount Beneficially Owned by Each Reporting Person							
12.	Check if	the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) o							
13.	Percent of 30% ²	f Class Represented by Amount in Row (11)							
14.	Type of l	Reporting Person (See Instructions)							
The Reno	rting Porc	on is the beneficial owner of 8 263 982 shares of the Issuer's Common Stock as well as conversion shares underlying each of 27 777							

² The Reporting Person is the beneficial owner of 8,263,982 shares of the Issuer's Common Stock as well as conversion shares underlying each of 27,777 vested stock options (right to buy), and 1,389 stock options (right to buy) which shall vest within 60 days of this filing held by Dr. Joshua Resnick for the benefit of RA Capital. The percentage calculation assumes that there are 27,630,264 outstanding shares of Common Stock of the Issuer, based on 27,601,098 outstanding shares of Common Stock of the Issuer based on the Issuer's Form 8-K filed with the SEC on June 21, 2023, and giving effect to stock options referenced herein.

_	T T	O T	n			~	00			\sim	_
()	H	SI	PΙ	٧c)	()(າຂເ	164	11	()	/

1.	Names of Reporting Persons.							
	Raje	ev Sha	h					
2.	Check (a) (b)	k the A	appropriate Box if a Member of a Group (See Instructions) o 0					
3.		Use O						
3.	SEC	Ose O	nly					
4.	Source of Funds (See Instructions) AF							
5.	Checl		sclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) o					
6.		enship ed Stat	or Place of Organization es					
	7	7.	Sole Voting Power 0					
Number Shares Beneficia	. 8	3.	Shared Voting Power 8,293,148					
Owned l Each Reportin	g ng	Э.	Sole Dispositive Power 0					
Person W		10.	Shared Dispositive Power 8,293,148					
11.	Aggre 8,293		Amount Beneficially Owned by Each Reporting Person					
12.	Checl	k if the	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) o					
13.	Percent of Class Represented by Amount in Row (11) 30% ³							
14.	Туре НС, 1		oorting Person (See Instructions)					

³ The Reporting Person is the beneficial owner of 8,263,982 shares of the Issuer's Common Stock as well as conversion shares underlying each of 27,777 vested stock options (right to buy), and 1,389 stock options (right to buy) which shall vest within 60 days of this filing held by Dr. Joshua Resnick for the benefit of RA Capital. The percentage calculation assumes that there are 27,630,264 outstanding shares of Common Stock of the Issuer, based on 27,601,098 outstanding shares of Common Stock of the Issuer based on the Issuer's Form 8-K filed with the SEC on June 21, 2023, and giving effect to stock options referenced herein.

,	\sim T	TCI	מו	No		\cap	On	641	'n	7
١		1.51	IP.	INC)	w	ואו	m4 I	11	/

1.	Names of Reporting Persons.								
	RA Capi	tal Healthcare Fund, L.P.							
2.	Check the (a) (b)	Appropriate Box if a Member of a Group (See Instructions) o o							
3.	SEC Use	Only							
4.	Source of Funds (See Instructions) WC								
5.		Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) o							
6.	Citizensh Delaware	ip or Place of Organization							
	7.	Sole Voting Power 0							
Number Shares Beneficia	s 8. ally	Shared Voting Power 6,965,568							
Owned Each Reporti	9. ng	Sole Dispositive Power 0							
Person W	Vith 10.	Shared Dispositive Power 6,965,568							
11.	Aggregate 6,965,568	e Amount Beneficially Owned by Each Reporting Person							
12.	Check if t	the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) o							
13.									
14.		Leporting Person (See Instructions)							
El. D	d'am Danie								

⁴ The Reporting Person is the beneficial owner of 6,965,568 shares of the Issuer's Common Stock. The percentage calculation assumes that there are 27,601,098 outstanding shares of Common Stock of the Issuer based on the Issuer's Form 8-K filed with the SEC on June 21, 2023.

Item 1. Security and Issuer

Item 1 of the Statement is amended and supplemented as follows:

This Amendment No. 1 (this "Amendment No. 1" or this "13D/A") amends and supplements the statement on the Schedule 13D originally filed with the Securities and Exchange Commission (the "SEC") on July 12, 2021 (as amended, the "Statement"), filed by RA Capital Management, L.P., Dr. Kolchinsky, Mr. Shah, and RA Capital Healthcare Fund, L.P. with respect to the common stock, par value \$0.0001 per share (the "Common Stock"), of Aerovate Therapeutics, Inc., a Delaware corporation (the "Issuer"), which has its principal executive offices at 930 Winter Street, Suite M-500, Waltham, Massachusetts 02451. Unless otherwise defined herein, capitalized terms used in this Amendment No. 1 shall have the meanings ascribed to them in the Statement. Unless amended or supplemented below, the information in the Statement remains unchanged.

Item 2. Identity and Background

Item 2 of the Statement is amended and restated as follows:

(a) This 13D/A is being filed on behalf of RA Capital Management, L.P. ("RA Capital"), Peter Kolchinsky, Rajeev Shah, and RA Capital Healthcare Fund, L.P. (the "Fund") and are collectively referred to herein as the "Reporting Persons". The agreement among the Reporting Persons to file this 13D/A jointly in accordance with Rule 13d-1(k) of the Securities Exchange Act of 1934, as amended, is attached hereto as Exhibit 1.

The Reporting Persons' ownership of the Issuer's securities include (1) 6,965,568 shares of Common Stock held directly by the Fund, (2) 987,244 shares of Common Stock held directly by RA Capital Nexus Fund, L.P. (the "Nexus Fund"), (3) 311,170 shares of Common Stock held in a separately managed account (the "Account"), (4) a total of 27,777 vested stock options (right to buy), and (5) 1,389 stock options which shall vest within 60 days of this filing.

RA Capital Healthcare Fund GP, LLC is the general partner of the Fund and RA Capital Nexus Fund GP, LLC is the general partner of the Nexus Fund. The general partner of RA Capital is RA Capital Management GP, LLC, of which Dr. Kolchinsky and Mr. Shah are the controlling persons. RA Capital serves as investment adviser for the Fund, the Account, and the Nexus Fund and may be deemed a beneficial owner, for purposes of Section 13(d) of the Securities Exchange Act of 1934 (the "Act"), of any securities of the Issuer held by the Fund, the Account, or the Nexus Fund. The Fund and the Nexus Fund have delegated to RA Capital the sole power to vote and the sole power to dispose of all securities held in the Fund's and the Nexus Fund's portfolio, including the shares of the Issuer's Common Stock reported herein. Because the Fund and the Nexus Fund have divested themselves of voting and investment power over the reported securities they hold and may not revoke that delegation on less than 61 days' notice, the Fund and the Nexus Fund disclaim beneficial ownership of the securities they hold for purposes of Section 13(d) of the Act and therefore disclaim any obligation to report ownership of the reported securities under Section 13(d) of the Act. As managers of RA Capital, Dr. Kolchinsky and Mr. Shah may be deemed beneficial owners, for purposes of Section 13(d) of the Act, of any securities reported in this 13D/A other than for the purpose of determining their obligations under Section 13(d) of the Act, and the filing of the Statement shall not be deemed an admission that either RA Capital, Dr. Kolchinsky, or Mr. Shah is the beneficial owner of such securities for any other purpose.

- (b) The address of the principal business office of each of the Reporting Persons is 200 Berkeley Street, 18th Floor, Boston, MA 02116.
- (c) The Fund is a private investment vehicle. RA Capital provides investment management services to the Fund, the Account, and the Nexus Fund. The principal occupation of Dr. Kolchinsky and Mr. Shah is investment management.
- (d) During the last five years, none of the Reporting Persons has been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors).
- (e) During the last five years, none of the Reporting Persons has been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is subject to a judgment, decree of final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

(f) See Item 6 of the cover pages.

Item 4. Purpose of Transaction

Item 4 of the Statement is amended and supplemented as follows:

The Reporting Persons acquired the Common Stock reported herein for investment purposes and not with an intent, purpose or effect of changing control of the Issuer. Although the Reporting Persons currently have no plan or proposal to acquire any additional Issuer securities or to dispose of any of the Issuer securities reported herein, the Reporting Persons may acquire additional Issuer securities from time to time or dispose of Issuer securities they beneficially own, on the open market or in private transactions or otherwise (including by means of 10b5-1 programs), consistent with their investment purposes and in amounts, on such terms and at such times as to be determined by the Reporting Persons based upon a number of factors, including, without limitation, their ongoing assessment of the Issuer's business prospects, the availability of Issuer securities at prices that would make the purchase or sale of such securities desirable, prevailing market conditions, the availability of other investment opportunities, and/or other considerations.

In addition, consistent with their investment purpose, the Reporting Persons may engage in communications with persons associated with the Issuer, including shareholders of the Issuer, officers of the Issuer, members of the board of directors of the Issuer, and/or or other third parties, to discuss matters regarding the Issuer, including but not limited to its operations, strategic direction, governance or capitalization, and potential business combinations or dispositions involving the Issuer or certain of its businesses. Dr. Joshua Resnick, a Senior Managing Director of RA Capital, currently serves as a director of the Issuer and therefore will engage in regular discussions with the Issuer's board of directors and management as part of his duties as a director.

Neither Dr. Resnick (other than in his capacity as a director) nor the Reporting Persons have any present plans or proposals that relate to, or could result in, any of the matters referred to in paragraphs (a) through (j), inclusive, of the instructions to Item 4 of Schedule 13D.

Depending on various factors including, without limitation, the Issuer's financial position, results and strategic direction, actions taken by the Issuer's management and Board, other investment opportunities available to RA Capital, the price levels of the Issuer securities, conditions in the securities markets and general economic and industry conditions, the Reporting Persons may change their purpose and formulate and implement plans or proposals with respect to the Issuer at any time and from time to time. Any such action may be made by the Reporting Persons alone or in conjunction with other shareholders, potential acquirers, financing sources and/or other third parties and could include one or more purposes, plans or proposals that relate to or would result in actions required to be reported herein in accordance with Item 4 of Schedule 13D.

Item 5. Interest in Securities of the Issuer

Item 5 of the Statement is amended and supplemented as follows:

- (a) The information set forth in rows 11 and 13 of the cover pages to this 13D/A is incorporated by reference. The percentage set forth in row 13 is based on 27,601,098 outstanding shares of Common Stock, as reported by the Issuer in its Form 8-K filed with the Securities and Exchange Commission on June 21, 2023.
- (b) The information set forth in rows 7 through 10 of the cover pages to this Schedule 13D/A and Item 2 above is incorporated by reference.
- (c) The following table lists the Reporting Persons' transactions in Common Stock that were effected during the sixty day period prior to the filing of this 13D/A:⁵

Transaction	Purchaser	Date	No. Shares	Price
Vest Stock Option (Right to Buy)	RA Capital	29-April-2023	694	(1)
Vest Stock Option (Right to Buy)	RA Capital	29-May-2023	695	(1)
Vest Stock Option (Right to Buy)	RA Capital	29-June-2023	694	(1)*
Vest Stock Option (Right to Buy)	RA Capital	29-July-2023	695	(1)*

- (1) This option shall vest in 36 substantially equal monthly installments, with the first installment vesting on July 29, 2021 subject to Dr. Resnick's continued service on the Issuer's board of directors.
- * Represents future vesting within 60 days from the filing date of this 13D/A.
- (d) No person (other than the Reporting Persons) is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the shares of Common Stock subject to this 13D/A.
- (e) Not applicable.

Item 7. Material to be Filed as Exhibits

Item 7 of the Statement is amended and supplemented by the following:

Exhibit 1 Joint Filing Agreement

⁵ The Common Stock and percentage ownership reported in this amendment reflect an increase in the number of outstanding shares of the Issuer.

SIGNATURES

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: June 27, 2023

RA CAPITAL MANAGEMENT, L.P.

By: /s/ Peter Kolchinsky

Name: Peter Kolchinsky
Title: Authorized Signatory

PETER KOLCHINSKY

/s/ Peter Kolchinsky

RAJEEV SHAH

/s/ Rajeev Shah

RA CAPITAL HEALTHCARE FUND, L.P.

By: RA Capital Healthcare Fund GP, LLC

Its: General Partner

By: /s/ Peter Kolchinsky

Name: Peter Kolchinsky Title: Manager

JOINT FILING AGREEMENT

This Joint Filing Agreement, dated as of June 27, 2023, is by and among RA Capital Management, L.P., Peter Kolchinsky, Rajeev Shah, and RA Capital Healthcare Fund, L.P. (the foregoing are collectively referred to herein as the "Filers").

Each of the Filers may be required to file with the United States Securities and Exchange Commission a statement on Schedule 13G and/or 13D with respect to Common Stock, par value \$0.0001 per share of Aerovate Therapeutics, Inc. beneficially owned by them from time to time.

Pursuant to and in accordance with Rule 13(d)(1)(k) promulgated under the Securities Exchange Act of 1934, as amended, the Filers hereby agree to file a single statement on Schedule 13G and/or 13D (and any amendments thereto) on behalf of each of such parties, and hereby further agree to file this Joint Filing Agreement as an exhibit to such statement, as required by such rule.

This Joint Filing Agreement may be terminated by any of the Filers upon one week's prior written notice or such lesser period of notice as the Filers may mutually agree.

Executed and delivered as of the date first above written.

RA CAPITAL MANAGEMENT, L.P.

By: /s/ Peter Kolchinsky

Name: Peter Kolchinsky
Title: Authorized Signatory

PETER KOLCHINSKY

/s/ Peter Kolchinsky

RAJEEV SHAH

/s/ Rajeev Shah

RA CAPITAL HEALTHCARE FUND, L.P.

By: RA Capital Healthcare Fund GP, LLC

Its: General Partner

By: /s/ Peter Kolchinsky

Name: Peter Kolchinsky Title: Manager