UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G/A

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

Cabaletta Bio, Inc.

(Name of Issuer)

Common Stock, par value \$0.00001 per share (Title of Class of Securities)

12674W109 (CUSIP Number)

December 31, 2023

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- \Box Rule 13d-1(b)
- Rule 13d-1(c)
- \square Rule 13d-1(d)

*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 the disclosures provided in a prior cover page.

The information required in 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 ("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).

CUSIP No. 12674W109

1.	Names of Reporting Persons				
	Venrock Healthcare Capital Partners III, L.P.				
2.	Check the A	ppropriat	te Box if a Member of a Group (See Instructions)		
	(a) ⊠ (1) (b) 🗆			
3.	SEC Use On	ly			
4.	Citizenship of	or Place of	of Organization		
	Delaware				
		5.	Sole Voting Power		
			0		
Number of Shares		6.	Shared Voting Power		
Beneficially			2,563,952 (2)		
Owned by Each		7.	Sole Dispositive Power		
Reporting Person With			0		
		8.	Shared Dispositive Power		
			2,563,952 (2)		
9.	9. Aggregate Amount Beneficially Owned by Each Reporting Person		eneficially Owned by Each Reporting Person		
	2,563,952 (2)				
10.					
11.	Percent of C	lass Repi	resented by Amount in Row (9)		
	6.4% (3)				

Page 2 of 14

12	. Type of Reporting Person (See Instructions)
	PN

(1) Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, Venrock Healthcare Capital Partners EG, L.P., VHCP Management III, LLC, VHCP Management EG, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G/A.

(2) Consists of (i) 588,410 shares held by Venrock Healthcare Capital Partners III, L.P.; (ii) 58,863 shares held by VHCP Co-Investment Holdings III, LLC; and (iii) 1,916,679 shares held by Venrock Healthcare Capital Partners EG, L.P.

(3) This percentage is calculated based upon 40,215,874 shares of voting common stock outstanding as of September 30, 2023, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 9, 2023.

CUSIP No. 12674W109

Page 3 of 14

1.	1. Names of Reporting Persons					
	VHCP Co-Investment Holdings III, LLC					
2.	Check the A	Check the Appropriate Box if a Member of a Group (See Instructions)				
	(a) ⊠ (1)	(a) ⊠ (1) (b) □				
3.	SEC Use On	ıly				
4.	Citizenship or Place of Organization					
	Delaware					
		5.	Sole Voting Power			
			0			
Number of Shares		6.	Shared Voting Power			
Beneficially	r		2,563,952 (2)			
Owned by Each		7.	Sole Dispositive Power			
Reporting			0			
Person With	1	8.	Shared Dispositive Power			
9.	2,563,952 (2) Aggregate Amount Beneficially Owned by Each Reporting Person					
).						
10	2,563,952 (2)		te Aussent in Dans (0) Englisher Contain Olympe (Car Instructions)			
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)					
11.	11. Percent of Class Represented by Amount in Row (9)		resented by Amount in Row (9)			
	6.4% (3)					
12.						
12.	Type of Reporting Person (See Instructions)					
	00					

(1) Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, Venrock Healthcare Capital Partners EG, L.P., VHCP Management III, LLC, VHCP Management EG, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G/A.

(2) Consists of (i) 588,410 shares held by Venrock Healthcare Capital Partners III, L.P.; (ii) 58,863 shares held by VHCP Co-Investment Holdings III, LLC; and (iii) 1,916,679 shares held by Venrock Healthcare Capital Partners EG, L.P.

(3) This percentage is calculated based upon 40,215,874 shares of voting common stock outstanding as of September 30, 2023, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 9, 2023.

CUSIP No. 12674W109

Page 4 of 14

1.	Names of Reporting Persons
	Venrock Healthcare Capital Partners EG, L.P.
2.	Check the Appropriate Box if a Member of a Group (See Instructions)
	(a) ⊠ (1) (b) □
3.	SEC Use Only

4.	Citizenship or Place of Organization			
	Delaware			
		5.	Sole Voting Power	
			0	
Number of Shares		6.	Shared Voting Power	
Beneficially			2,563,952 (2)	
Owned by Each		7.	Sole Dispositive Power	
Reporting Person With			0	
		8.	Shared Dispositive Power	
			2,563,952 (2)	
9.	Aggregate Amount Beneficially Owned by Each Reporting Person			
	2,563,952 (2	2)		
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)			
11.	11. Percent of Class Represented by Amount in Row (9)		resented by Amount in Row (9)	
6.4% (3)				
12. Type of Reporting Person (See Instructions)		rson (See Instructions)		
	PN			

- (1) Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, Venrock Healthcare Capital Partners EG, L.P., VHCP Management III, LLC, VHCP Management EG, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G/A.
- (2) Consists of (i) 588,410 shares held by Venrock Healthcare Capital Partners III, L.P.; (ii) 58,863 shares held by VHCP Co-Investment Holdings III, LLC; and (iii) 1,916,679 shares held by Venrock Healthcare Capital Partners EG, L.P.
- (3) This percentage is calculated based upon 40,215,874 shares of voting common stock outstanding as of September 30, 2023, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 9, 2023.

Page 5 of 14

CUSIP No. 12674W109

1.	Names of Reporting Persons				
	VHCP Management III, LLC				
2.					
	(a) ☑ (1) (
3.	(a) 🗵 (1) (SEC Use On	-			
4.		•	of Organization		
	1				
	Delaware	5	Sole Voting Power		
		5.	Sole voling Power		
			0		
Number of Shares		6.	Shared Voting Power		
Beneficially			2,563,952 (2)		
Owned by Each		7.	Sole Dispositive Power		
Reporting Person With			0		
i cisoli with	L	8.	Shared Dispositive Power		
			2,563,952 (2)		
9.			eneficially Owned by Each Reporting Person		
2,563,952 (2))			
10.			te Amount in Row (9) Excludes Certain Shares (See Instructions)		
11.	11. Percent of Class Represented by Amount in Row (9)		esented by Amount in Row (9)		
6.4% (3)					
12.	Type of Rep	Type of Reporting Person (See Instructions)			
00					

- Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, Venrock Healthcare Capital Partners EG, L.P., VHCP Management III, LLC, (1)VHCP Management EG, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G/A.
- Consists of (i) 588,410 shares held by Venrock Healthcare Capital Partners III, L.P.; (ii) 58,863 shares held by VHCP Co-Investment Holdings III, LLC; and (iii) 1,916,679 (2)shares held by Venrock Healthcare Capital Partners EG, L.P.
- This percentage is calculated based upon 40,215,874 shares of voting common stock outstanding as of September 30, 2023, as reported in the Issuer's Quarterly Report on (3)Form 10-Q filed with the Securities and Exchange Commission on November 9, 2023.

CUSIP No. 12674W109

1.

Names of Reporting Persons VHCP Management EG, LLC 2 Check the Appropriate Box if a Member of a Group (See Instructions) (a) ⊠ (1) (b) □ SEC Use Only 3. 4. Citizenship or Place of Organization Delaware Sole Voting Power 5. Number of Shared Voting Power 6. Shares Beneficially 2,563,952 (2) Owned by 7. Sole Dispositive Power Each Reporting Person With Shared Dispositive Power 8. 2,563,952 (2) 9. Aggregate Amount Beneficially Owned by Each Reporting Person 2,563,952 (2) 10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) 11. Percent of Class Represented by Amount in Row (9) 6.4% (3) 12. Type of Reporting Person (See Instructions) 00

(1)Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, Venrock Healthcare Capital Partners EG, L.P., VHCP Management III, LLC, VHCP Management EG, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G/A.

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This percentage is calculated based upon 40,215,874 shares of voting common stock outstanding as of September 30, 2023, as reported in the Issuer's Quarterly Report on (3)Form 10-Q filed with the Securities and Exchange Commission on November 9, 2023.

CUSIP No. 12674W109

Page 7 of 14

Page 6 of 14

1.	Names of Reporting Persons							
	Shah, Nimish							
2.	Check the Appropriate Box if a Member of a Group (See Instructions)							
	(a) ⊠ (1) (b) □							
3.	SEC Use Only							
4.	Citizenship or Place of Organization							
	United States							

		5.	Sole Voting Power
		5.	
			0
Number of Shares		6.	Shared Voting Power
Beneficially Owned by			2,563,952 (2)
Each		7.	Sole Dispositive Power
Reporting Person With			0
		8.	Shared Dispositive Power
			2,563,952 (2)
9.	9. Aggregate Amount Beneficially Owned by Each Reporting Person		eneficially Owned by Each Reporting Person
	2,563,952 (2)		
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)		
11.	11. Percent of Class Represented by Amount in Row (9)		resented by Amount in Row (9)
	6.4% (3)		
12.	12. Type of Reporting Person (See Instructions)		erson (See Instructions)
	IN		

(1) Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, Venrock Healthcare Capital Partners EG, L.P., VHCP Management III, LLC, VHCP Management EG, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G/A.

(2) Consists of (i) 588,410 shares held by Venrock Healthcare Capital Partners III, L.P.; (ii) 58,863 shares held by VHCP Co-Investment Holdings III, LLC; and (iii) 1,916,679 shares held by Venrock Healthcare Capital Partners EG, L.P.

(3) This percentage is calculated based upon 40,215,874 shares of voting common stock outstanding as of September 30, 2023, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 9, 2023.

CUSIP No. 12674W109

Names of Reporting Persons 1. Koh, Bong 2. Check the Appropriate Box if a Member of a Group (See Instructions) (a) ⊠ (1) (b) □ SEC Use Only 3. Citizenship or Place of Organization 4. United States 5. Sole Voting Power 0 Number of Shared Voting Power 6. Shares Beneficially 2,563,952 (2) Owned by 7. Sole Dispositive Power Each Reporting 0 Person With Shared Dispositive Power 8. 2,563,952 (2) Aggregate Amount Beneficially Owned by Each Reporting Person 9. 2,563,952 (2) Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) 10. Percent of Class Represented by Amount in Row (9) 11. 6.4% (3) 12. Type of Reporting Person (See Instructions) IN

(1) Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, Venrock Healthcare Capital Partners EG, L.P., VHCP Management III, LLC, VHCP Management EG, LLC, Nimish Shah and Bong Koh are members of a group for the purposes of this Schedule 13G/A.

Page 8 of 14

- (2) Consists of (i) 588,410 shares held by Venrock Healthcare Capital Partners III, L.P.; (ii) 58,863 shares held by VHCP Co-Investment Holdings III, LLC; and (iii) 1,916,679 shares held by Venrock Healthcare Capital Partners EG, L.P.
- (3) This percentage is calculated based upon 40,215,874 shares of voting common stock outstanding as of September 30, 2023, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 9, 2023.

CUSIP No. 12674W109

Page 9 of 14

Introductory Note: This Schedule 13G/A is filed on behalf of Venrock Healthcare Capital Partners III, L.P., a limited partnership organized under the laws of the State of Delaware ("VHCP III LP"), VHCP Co-Investment Holdings III, LLC, a limited liability company organized under the laws of the State of Delaware ("VHCP EG"), VHCP Co-Investment III"), Venrock Healthcare Capital Partners EG, L.P., a limited partnership organized under the laws of the State of Delaware ("VHCP EG"), VHCP Management III, LLC, a limited liability company organized under the laws of the State of Delaware ("VHCP EG"), VHCP Management III, LLC, a limited liability company organized under the laws of the State of Delaware ("VHCP Management III, LLC, a limited liability company organized under the laws of the State of Delaware ("VHCP Management III"), VHCP Management EG, LLC, a limited liability company organized under the laws of the State of Delaware ("VHCP Management EG" and collectively with VHCP III LP, VHCP Co-Investment III, VHCP EG and VHCP Management III, the "Venrock Entities"), Nimish Shah ("Shah") and Bong Koh ("Koh") in respect of the Common Stock of Cabaletta Bio, Inc.

Item 1.

(a) Name of Issuer

Cabaletta Bio, Inc.

(b) Address of Issuer's Principal Executive Offices

2929 Arch Street, Suite 600 Philadelphia, PA 19104

Item 2.

(a) Name of Person Filing

Venrock Healthcare Capital Partners III, L.P. VHCP Co-Investment Holdings III, LLC Venrock Healthcare Capital Partners EG, L.P. VHCP Management III, LLC VHCP Management EG, LLC Nimish Shah Bong Koh

(b) Address of Principal Business Office or, if none, Residence

New York Office:	Palo Alto Office:
7 Bryant Park 23rd Floor New York, NY 10018	3340 Hillview Avenue Palo Alto, CA 94304

(c) Citizenship

All of the Venrock Entities were organized in Delaware. The individuals are both United States citizens.

(d) Title of Class of Securities

Common Stock, par value \$0.00001 per share

(e) CUSIP Number

12674W109

CUSIP No. 12674W109

Page 10 of 14

Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

Not applicable

Item 4. Ownership

(a) Amount beneficially owned as of December 31, 2023:

Venrock Healthcare Capital Partners III, L.P.	2,563,952 (1)
VHCP Co-Investment Holdings III, LLC	2,563,952 (1)
Venrock Healthcare Capital Partners EG, L.P.	2,563,952 (1)
VHCP Management III, LLC	2,563,952 (1)

VHCP Management EG, LLC	2,563,952(1)
Nimish Shah	2,563,952 (1)
Bong Koh	2,563,952 (1)

(b) Percent of class as of December 31, 2023:

Venrock Healthcare Capital Partners III, L.P.	6.4% (2)
VHCP Co-Investment Holdings III, LLC	6.4% (2)
Venrock Healthcare Capital Partners EG, L.P.	6.4% (2)
VHCP Management III, LLC	6.4% (2)
VHCP Management EG, LLC	6.4% (2)
Nimish Shah	6.4% (2)
Bong Koh	6.4%(2)

- (c) Number of shares as to which the person has, as of December 31, 2023:
 - (i) Sole power to vote or to direct the vote:

Venrock Healthcare Capital Partners III, L.P.	0
VHCP Co-Investment Holdings III, LLC	0
Venrock Healthcare Capital Partners EG, L.P.	0
VHCP Management III, LLC	0
VHCP Management EG, LLC	0
Nimish Shah	0
Bong Koh	0

(ii) Shared power to vote or to direct the vote:

Venrock Healthcare Capital Partners III, L.P.	2,563,952 (1)
VHCP Co-Investment Holdings III, LLC	2,563,952 (1)
Venrock Healthcare Capital Partners EG, L.P.	2,563,952 (1)
VHCP Management III, LLC	2,563,952 (1)
VHCP Management EG, LLC	2,563,952 (1)
Nimish Shah	2,563,952 (1)
Bong Koh	2,563,952 (1)

CUSIP No. 12674W109

(iii) Sole power to dispose or to direct the disposition of:

Venrock Healthcare Capital Partners III, L.P.	0
VHCP Co-Investment Holdings III, LLC	0
Venrock Healthcare Capital Partners EG, L.P.	0
VHCP Management III, LLC	0
VHCP Management EG, LLC	0
Nimish Shah	0
Bong Koh	0

(iv) Shared power to dispose or to direct the disposition of:

Venrock Healthcare Capital Partners III, L.P.	2,563,952 (1)
VHCP Co-Investment Holdings III, LLC	2,563,952 (1)
Venrock Healthcare Capital Partners EG, L.P.	2,563,952 (1)
VHCP Management III, LLC	2,563,952 (1)
VHCP Management EG, LLC	2,563,952 (1)
Nimish Shah	2,563,952 (1)
Bong Koh	2,563,952 (1)

- (1) Consists of (i) 588,410 shares held by Venrock Healthcare Capital Partners III, L.P.; (ii) 58,863 shares held by VHCP Co-Investment Holdings III, LLC; and (iii) 1,916,679 shares held by Venrock Healthcare Capital Partners EG, L.P. VHCP Management III, LLC is the general partner of Venrock Healthcare Capital Partners III, L.P. and the manager of VHCP Co-Investment Holdings III, LLC. VHCP Management EG, LLC is the general partner of Venrock Healthcare Capital Partners EG, L.P. Messrs. Shah and Koh are the voting members of VHCP Management III, LLC and VHCP Management EG, LLC.
- (2) This percentage is calculated based upon 40,215,874 shares of voting common stock outstanding as of September 30, 2023, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 9, 2023.

Item 5. Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following

Item 6. Ownership of More than Five Percent on Behalf of Another Person

Not applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person

Page 11 of 14

CUSIP No. 12674W109

 Item 8.
 Identification and Classification of Members of the Group

 Not applicable

 Item 9.
 Notice of Dissolution of Group

 Not applicable

Item 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having such purpose or effect.

CUSIP No. 12674W109

Page 13 of 14

SIGNATURE

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: February 14, 2024

Venrock Healthcare Capital Partners III, L.P.

- By: VHCP Management III, LLC
- Its: General Partner
- By: /s/ Sherman G. Souther Name: Sherman G. Souther Its: Authorized Signatory

VHCP Co-Investment Holdings III, LLC

- By: VHCP Management III, LLC Its: Manager
- By: /s/ Sherman G. Souther
- Name: Sherman G. Souther Its: Authorized Signatory

VHCP Management III, LLC

By: <u>/s/ Sherman G. Souther</u> Name: Sherman G. Souther Its: Authorized Signatory

Nimish Shah

/s/ Sherman G. Souther Sherman G. Souther, Attorney-in-fact

Bong Koh

/s/ Sherman G. Souther Sherman G. Souther, Attorney-in-fact

CUSIP No. 12674W109

EXHIBITS

By: VHCP Management EG, LLC Its: General Partner

Venrock Healthcare Capital Partners EG, L.P.

By: /s/ Sherman G. Souther Name: Sherman G. Souther Its: Authorized Signatory

VHCP Management EG, LLC

By: /s/ Sherman G. Souther Name: Sherman G. Souther Its: Authorized Signatory

Page 12 of 14

- B: Power of Attorney for Nimish Shah (incorporated by reference to Exhibit B to Schedule 13G filed December 23, 2022)
- C: Power of Attorney for Bong Koh (incorporated by reference to Exhibit C to Schedule 13G filed on December 23, 2022)