SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G/A

Under the Securities Exchange Act of 1934 (Amendment No. 3)*

Cabaletta Bio, Inc.

(Name of Issuer)

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

12674W109 (CUSIP Number)

December 31, 2022

(Date of Event Which Requires Filing of This Statement)

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

- ☐ Rule 13d-1(b)
- **⊠** Rule 13d-1(c)
- □ Rule 13d-1(d)

(Page 1 of 10 Pages)

*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 ("<u>Act</u>") 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 13G/A Page 2 of 10 Pages

1	NAME OF REPORTING PERSON Adage Capital Partners, L.P.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b)			
3	SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware			
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 0		
	6	SHARED VOTING POWER 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of	of warrants)	
	7	SOLE DISPOSITIVE POWER 0		
	8	SHARED DISPOSITIVE POWER 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of Votin	of warrants)	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			

11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.99%
12	TYPE OF REPORTING PERSON PN

CUSIP No. 12674W109 13G/A Page 3 of 10 Pages

	or nero	NAME OF THE OWN			
1	NAME OF REPORTING PERSON Adage Capital Partners GP, L.L.C.				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b)				
3	SEC USE ONLY				
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware				
	5	SOLE VOTING POWER 0			
NUMBER OF SHARES BENEFICIALLY	6	6 SHARED VOTING POWER 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)			
OWNED BY EACH REPORTING PERSON WITH:	7	SOLE DISPOSITIVE POWER 0			
TERSON WITH.	8	SHARED DISPOSITIVE POWER 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)			
9		MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.99%				
12	TYPE OF REPOR	RTING PERSON			

CUSIP No. 12674W109 13G/A Page 4 of 10 Pages

1	NAME OF REPORTING PERSON Adage Capital Advisors, L.L.C.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b)			
3	SEC USE ONLY	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware			
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 0		
	6	SHARED VOTING POWER 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)		
	7	SOLE DISPOSITIVE POWER 0		
	8	SHARED DISPOSITIVE POWER 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)		

9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.99%	
12	TYPE OF REPORTING PERSON OO	

CUSIP No. 12674W109 13G/A Page 5 of 10 Pages

1	NAME OF REP Robert A	ORTING PERSON tehinson		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)		(a) \square	
3	SEC USE ONLY	Y	(0) 🗖	
4	CITIZENSHIP OR PLACE OF ORGANIZATION United States			
	5	SOLE VOTING POWER 0		
NUMBER OF SHARES BENEFICIALLY	6 SHARED VOTING POWER 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)			
OWNED BY EACH REPORTING PERSON WITH:	7	SOLE DISPOSITIVE POWER 0		
PERSON WITH:	8	SHARED DISPOSITIVE POWER 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of w	varrants)	
9		AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 8 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.99%			
12	TYPE OF REPO	ORTING PERSON		

CUSIP No. 12674W109 13G/A Page 6 of 10 Pages

1	NAME OF REPORTING PERSON Phillip Gross		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b)		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION United States		
	5	SOLE VOTING POWER 0	
NUMBER OF SHARES BENEFICIALLY	6	SHARED VOTING POWER 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)	
OWNED BY EACH REPORTING	7	SOLE DISPOSITIVE POWER 0	

PERSON WITH:	8	SHARED DISPOSITIVE POWER 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.99%			
12	TYPE OF REPOR	TING PERSON		

CUSIP No. 12674W109 13G/A Page 7 of 10 Pages

Item 1(a). NAME OF ISSUER

The name of the issuer is Cabaletta Bio, Inc. (the "Company").

Item 1(b). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES

The Company's principal executive offices are located at 2929 Arch Street, Suite 600, Philadelphia, Pennsylvania 19104.

Item 2(a). NAME OF PERSON FILING

This statement is filed by:

- (i) Adage Capital Partners, L.P., a Delaware limited partnership ("<u>ACP</u>") with respect to the shares of Voting Common Stock directly owned by it;
- (ii) Adage Capital Partners GP, L.L.C., a limited liability company organized under the laws of the State of Delaware ("ACPGP"), as general partner of ACP with respect to the shares of Voting Common Stock directly owned by ACP;
- (iii) Adage Capital Advisors, L.L.C., a limited liability company organized under the laws of the State of Delaware ("ACA"), as managing member of ACPGP, general partner of ACP, with respect to the shares of Voting Common Stock directly owned by ACP;
- (iv) Robert Atchinson ("Mr. Atchinson"), as managing member of ACA, managing member of ACPGP, general partner of ACP with respect to the shares of Voting Common Stock directly owned by ACP; and
- (v) Phillip Gross ("Mr. Gross"), as managing member of ACA, managing member of ACPGP, general partner of ACP with respect to the shares of Voting Common Stock directly owned by ACP.

The foregoing persons are hereinafter sometimes collectively referred to as the "Reporting Persons." Any disclosures herein with respect to persons other than the Reporting Persons are made on information and belief after making inquiry to the appropriate party.

The filing of this statement should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of the securities reported herein.

Item 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE

The address of the business office of each of the Reporting Persons is 200 Clarendon Street, 52nd Floor, Boston, Massachusetts 02116.

Item 2(c). CITIZENSHIP

ACP is a limited partnership organized under the laws of the State of Delaware. ACPGP and ACA are limited liability companies organized under the laws of the State of Delaware. Messrs. Gross and Atchinson are citizens of the United States.

Item 2(d). TITLE OF CLASS OF SECURITIES

Voting Common Stock, \$0.00001 par value per share (the "Voting Common Stock").

Item 2(e). CUSIP NUMBER

12674W109

Item 3. IF THIS STATEMENT IS FILED PURSUANT TO Rules 13d-1(b), OR 13d-2(b) OR (c), CHECK WHETHER THE PERSON FILING IS A:

4) of the

If filing as a non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please specify the type of institution: Not applicable.

Item 4. OWNERSHIP

- A. Adage Capital Partners, L.P., Adage Capital Partners GP, L.L.C. and Adage Capital Advisors, L.L.C.
 - (a) Amount beneficially owned: 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)
 - (b) Percent of class: 9.99%. The percentage set forth in this Schedule 13G/A is calculated based upon 25,601,495 shares of Voting Common Stock outstanding as of September 30, 2022, as reported in the Company's Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2022, filed with the Securities and Exchange Commission on November 10, 2022, and assumes the conversion of the reported warrants.
 - (c) (i) Sole power to vote or direct the vote: 0
 - (ii) Shared power to vote or direct the vote: 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)
 - (iii) Sole power to dispose or direct the disposition: 0
 - (iv) Shared power to dispose or direct the disposition of: 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)

CUSIP No. 12674W109 13G/A Page 9 of 10 Pages

ACP has the power to dispose of and the power to vote the shares of Voting Common Stock beneficially owned by it, which power may be exercised by its general partner, ACPGP. ACA, as managing member of ACPGP, directs ACPGP's operations. Neither ACPGP nor ACA directly own any shares of Voting Common Stock. By reason of the provisions of Rule 13d-3 of the Act, ACPGP and ACA may be deemed to beneficially own the shares owned by ACP.

- B. Robert Atchinson and Phillip Gross
 - (a) Amount beneficially owned: 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)
 - (b) Percent of class: 9.99%
 - (c) (i) Sole power to vote or direct the vote: 0
 - (ii) Shared power to vote or direct the vote: 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)
 - (iii) Sole power to dispose or direct the disposition: 0
 - (iv) Shared power to dispose or direct the disposition: 2,559,358 (including 17,713 shares of Voting Common Stock issuable upon exercise of warrants)

Messrs. Atchinson and Gross, as managing members of ACA, have shared power to vote the shares of Voting Common Stock beneficially owned by ACP. Neither Mr. Atchinson nor Mr. Gross directly own any shares of Voting Common Stock. By reason of the provisions of Rule 13d-3 of the Act, each may be deemed to beneficially own the shares beneficially owned by ACP.

Item 5.	OWNERSHIP OF FIVE PERCENT OR LESS OF	A CLASS	
	Not applicable.		
Item 6.	OWNERSHIP OF MORE THAN FIVE PERCENT Not applicable.	Γ ON BEHALF OF ANOTHER PERSON	
Item 7.	IDENTIFICATION AND CLASSIFICATION OF REPORTED ON BY THE PARENT HOLDING C Not applicable.		THE SECURITY BEING
Item 8.	IDENTIFICATION AND CLASSIFICATION OF Not applicable.	MEMBERS OF THE GROUP	
Item 9.	NOTICE OF DISSOLUTION OF GROUP Not applicable.		
Item 10.	CERTIFICATION		
	Each of the Reporting Persons hereby makes the follo	wing certification:	
	By signing below each Reporting Person certifies that above were not acquired and are not held for the purpof the securities and were not acquired and are not hel purpose or effect.	ose of or with the effect of changing or influe	encing the control of the issuer
CUSIP No. 12674W109	13G/	4	Page 10 of 10 Pages
20011 1101 1207 117 107	SIGNAT		1 4 9 10 01 10 1 4 9 6 9
After reasonal statement is true, com	ble inquiry and to the best of his or its knowledge and be plete and correct.	elief, each of the undersigned certifies that th	ne information set forth in this
DATE: February 9, 20	023		
ADAGE CAPITAL P By: Adage Capital Pa its general partner			
By: Adage Capital Adits managing member	dvisors, L.L.C.,		
/s/ Robert Atchinson Name: Robert Atchin Title: Managing Mem			
ADAGE CAPITAL P By: Adage Capital Ac its managing member			
/s/ Robert Atchinson			
Name: Robert Atchin Title: Managing Mem			
ADAGE CAPITAL A			
/s/ Robert Atchinson			
Name: Robert Atchin Title: Managing Mem			
ROBERT ATCHINSO	ON		
/s/ Robert Atchinson ROBERT ATCHINSO	ON. individually		
PHILLIP GROSS	,		
/s/ Phillip Gross			
PHILLIP GROSS, inc	lividually		