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

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**SCHEDULE 13D**

**Under the Securities Exchange Act of 1934  
(Amendment No. 5)**

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**Cogent Biosciences, Inc.**  
(Name of Issuer)

**Common Stock, \$0.001 par value**  
(Title of Class of Securities)

**19240Q201**  
(CUSIP Number)

**Ms. Erin O'Connor  
Fairmount Funds Management LLC  
200 Barr Harbor Drive, Suite 400  
West Conshohocken, PA 19428  
(267) 262-5300**

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

*-with copy to-*

**Ryan A. Murr  
Gibson, Dunn & Crutcher LLP  
One Embarcadero Center Suite 2600  
San Francisco, CA 94111**

**March 28, 2024**  
(Date of Event which Requires Filing of this Statement)

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If the filing person has previously filed a statement on Schedule 13G to report the acquisition which is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(b)(3) or (4), check the following box .

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1	NAME OF REPORTING PERSON	
	Fairmount Funds Management LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS	
	AF	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)	
	<input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER
		0
	8	SHARED VOTING POWER
		9,986,556 <sup>(1)</sup>
	9	SOLE DISPOSITIVE POWER
		0
	10	SHARED DISPOSITIVE POWER
		9,986,556 <sup>(1)</sup>
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	9,986,556 <sup>(1)</sup>	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES	
	<input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)	
	9.90% <sup>(2)</sup>	
14	TYPE OF REPORTING PERSON	
	IA	

(1) The securities include (a) 4,725,641 shares of common stock, \$0.001 par value ("Common Stock"), and (b) 5,260,915 shares of Common Stock issuable upon conversion of approximately 21,044 shares of Series A Convertible Preferred Stock, par value \$0.001 per share (the "Series A Preferred Stock"). The securities exclude shares of Common Stock issuable upon conversion of shares of Series A Preferred Stock and Series B Convertible Preferred Stock, par value \$0.001 per share (the "Series B Preferred Stock"), held directly by Fund II (as defined below) in excess of the beneficial ownership limitation of 9.9%.

(2) Based on 95,613,396 shares of Common Stock outstanding as of March 25, 2024.

1	NAME OF REPORTING PERSON	
	Fairmount Healthcare Fund GP LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS	
	AF	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)	
	<input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER
		0
	8	SHARED VOTING POWER
		0
	9	SOLE DISPOSITIVE POWER
		0
	10	SHARED DISPOSITIVE POWER
		0
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	0	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES	
	<input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)	
	0.00%	
14	TYPE OF REPORTING PERSON	
	OO	

1	NAME OF REPORTING PERSON	
	Fairmount Healthcare Fund II GP LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS	
	AF	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)	
	<input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER
		0
	8	SHARED VOTING POWER
		9,986,556 <sup>(1)</sup>
	9	SOLE DISPOSITIVE POWER
		0
	10	SHARED DISPOSITIVE POWER
		9,986,556 <sup>(1)</sup>
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	9,986,556 <sup>(1)</sup>	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES	
	<input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)	
	9.90% <sup>(2)</sup>	
14	TYPE OF REPORTING PERSON	
	OO	

- (1) The securities include (a) 4,725,641 shares of Common Stock and (b) 5,260,915 shares of Common Stock issuable upon conversion of approximately 21,044 shares of Series A Preferred Stock. The securities exclude shares of Common Stock issuable upon conversion of shares of Series A Preferred Stock and Series B Preferred Stock held directly by Fund II in excess of the beneficial ownership limitation of 9.9%.
- (2) Based on 95,613,396 shares of Common Stock outstanding as of March 25, 2024.

**Item 1. Security and Issuer**

This Amendment No. 5 amends and supplements the statement on Schedule 13D originally filed with the Securities and Exchange Commission on July 6, 2020, Amendment No. 1 filed on June 21, 2022, Amendment No. 2 filed on June 13, 2023, Amendment No. 3 filed on February 16, 2024 and Amendment No. 4 filed on March 27, 2024 (as amended, the “Statement” or the “Schedule 13D”) by the Reporting Persons with respect to the Common Stock of Cogent Biosciences, Inc. (the “Company”). Unless otherwise defined herein, capitalized terms used in this Amendment No. 5 shall have the meanings ascribed to them in the Statement. Unless amended or supplemented below, the information in the Statement remains unchanged. The address of the principal executive offices of the Company is 275 Wyman Street, 3rd Floor, Waltham, MA 02451.

**Item 2. Identity and Background**

- (a) This Schedule 13D is being filed jointly by (1) Fairmount Funds Management LLC, a Delaware limited liability company and Securities and Exchange Commission (“SEC”) registered investment adviser under the Investment Advisers Act of 1940 (“Fairmount Funds Management”); (2) Fairmount Healthcare Fund GP LLC, a Delaware limited liability company (“Fairmount GP”); and (3) Fairmount Healthcare Fund II GP LLC, a Delaware limited liability company (“Fairmount GP II”) (Fairmount Funds Management, Fairmount GP, and Fairmount GP II, collectively, the “Reporting Persons”).
- (b) The principal business address of the Reporting Persons is 200 Barr Harbor Drive, Suite 400, West Conshohocken, PA 19428.
- (c) The principal business of Fairmount Funds Management is to provide discretionary investment management services to qualified investors through its private pooled investment vehicles, Fairmount Healthcare Fund LP (“Fund I”) and Fairmount Healthcare Fund II LP (“Fund II,” and collectively with Fund I, the “Clients”). Fairmount GP serves as the general partner to Fairmount Healthcare Fund LP. Fairmount GP II serves as the general partner to Fund II. Fairmount Funds Management has voting and dispositive power over the Common Stock held by the Clients, which is deemed shared with Fairmount GP and Fairmount GP II. The Clients do not have the right to acquire voting or dispositive power over the Common Stock within sixty days.
- (d)-(e) During the last five years, none of the Reporting Persons (i) has been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors) or (ii) has been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceedings was or is subject to a judgment, decree, or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violations with respect at such laws.
- (f) Fairmount Funds Management, Fairmount GP, and Fairmount GP II are each a Delaware limited liability company.

**Item 3. Source and Amount of Funds or Other Consideration**

Item 3 of the Statement is hereby amended and supplemented as follows:

In aggregate, the Reporting Persons have voting and dispositive power over 23,079,141 shares of Common Stock, which is comprised of (a) 4,725,641 shares of Common Stock, (b) 16,853,500 shares of Common Stock issuable upon conversion of 67,414 shares of Series A Preferred Stock and (c) 1,500,000 shares of Common Stock issuable upon conversion of 1,500 shares of Series B Preferred Stock. The conversion of the Series A Preferred Stock and Series B Preferred Stock is subject to a beneficial ownership limitation of 9.9% of the outstanding Common Stock.

On March 28, 2024, in connection with the wind down of Fund I, all shares of Common Stock and Series A Preferred Stock held by Fund I were transferred to Fund II. The number of shares of Common Stock, Series A Preferred Stock and Series B Preferred Stock owned by the Reporting Persons has not changed since Amendment No. 4 to the Statement, filed on March 27, 2024.

**Item 5. Interest in Securities of the Company**

Item 5 is hereby amended and supplemented as follows:

(a) and (b) See Items 7-11 of the cover pages above and Item 2.

(c) The following table lists the Reporting Persons' transactions in securities of the Company that were effected during the sixty day period prior to the filing of this Amendment No. 5, in addition to the transfer of shares of Common Stock and Series A Preferred Stock from Fund I to Fund II described herein:

<u>Transaction</u>	<u>Purchaser</u>	<u>Date</u>	<u>Share Amount</u>	<u>Price Per Share</u>
Purchase	Fund II	2/16/2024	1,166,666 shares of Common Stock	\$ 7.50
Purchase	Fund II	2/16/2024	1,500 shares of Series B Preferred Stock	\$ 7,500.00

(d) Not applicable.

(e) Not applicable.

**Item 7. Material to be Filed as Exhibits**

Exhibit  
No.

Description

99.1 [Joint Filing Agreement by and among the Reporting Persons \(incorporated by reference to Exhibit 99.1 to the Schedule 13D filed by the Reporting Persons with the SEC on July 10, 2020, File No. 005-90431\).](#)

**SIGNATURES**

After reasonable inquiry and to the best of my knowledge and belief, we certify that the information set forth in this statement April 1, 2024.

**FAIRMOUNT FUNDS MANAGEMENT LLC**

By: /s/ Peter Harwin  
Peter Harwin  
Managing Member

/s/ Tomas Kiselak  
Tomas Kiselak  
Managing Member

**FAIRMOUNT HEALTHCARE FUND GP LLC**

By: /s/ Peter Harwin  
Peter Harwin  
Managing Member

/s/ Tomas Kiselak  
Tomas Kiselak  
Managing Member

**FAIRMOUNT HEALTHCARE FUND II GP LLC**

By: /s/ Peter Harwin  
Peter Harwin  
Managing Member

/s/ Tomas Kiselak  
Tomas Kiselak  
Managing Member