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

**SCHEDULE 13G/A**

**UNDER THE SECURITIES EXCHANGE ACT OF 1934  
(Amendment No. 4)\***

**Cogent Biosciences, Inc.**

(Name of Issuer)

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

**19240Q201  
(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:

- Rule 13d-1(b)
- Rule 13d-1(c)
- 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).

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1.	Name of Reporting Persons Venrock Healthcare Capital Partners II, L.P.	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input checked="" type="checkbox"/> <sup>1</sup> (b) <input type="checkbox"/>	
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 9,038,844 <sup>2</sup>
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 9,038,844 <sup>2</sup>
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 9,038,844 <sup>2</sup>	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
11.	Percent of Class Represented by Amount in Row (9) 9.99% <sup>3</sup>	
12.	Type of Reporting Person (See Instructions) PN	

- 1 Venrock Healthcare Capital Partners II, L.P., VHCP Co-Investment Holdings II, LLC, Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, Venrock Healthcare Capital Partners EG, L.P., VHCP Management II, LLC, 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) 650,793 shares of common stock and 1,151,201 shares of common stock issuable upon the conversion of Series A non-voting convertible preferred stock ("Series A stock") held by Venrock Healthcare Capital Partners II, L.P., (ii) 263,919 shares of common stock and 465,668 shares of common stock issuable upon the conversion of Series A stock held by VHCP Co-Investment Holdings II, LLC, (iii) 1,939,600 shares of common stock and 2,489,534 shares of common stock issuable upon the conversion of Series A stock held by Venrock Healthcare Capital Partners III, L.P., (iv) 194,103 shares of common stock and 248,274 shares of common stock issuable upon the conversion of Series A stock held by VHCP Co-Investment Holdings III, LLC., and (v) 1,635,752 shares of common stock held by Venrock Healthcare Capital Partners EG, L.P. The share numbers in the preceding sentence represent the maximum number of shares of common stock issuable upon the voluntary conversion of the Reporting Persons' Series A stock pursuant to the Certificate of Designation for the Series A stock as a result of the blocker provision of the Certificate of Designation described in the following sentence. The Certificate of Designation provides that the holder of Series A stock will not have a right to convert, subject to certain exceptions, the Series A stock for common stock if, as a result of such conversion, the holder, together with its affiliates and other attribution parties, would exceed a beneficial ownership limitation to be set at the discretion of the holder between 4.9% and 19.9% of the number of shares of common stock outstanding immediately after giving effect to the issuance of the shares of common stock being converted. The Reporting Persons have set the beneficial ownership limitation at 9.99%.
- 3 This percentage is calculated based upon (i) 86,124,249 shares of the Issuer's Common Stock outstanding as of November 3, 2023, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2023 plus (ii) 4,354,677 shares of common stock issuable upon conversion of Series A stock held by the Reporting Persons.

1.	Name of Reporting Persons VHCP Co-Investment Holdings II, LLC	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input checked="" type="checkbox"/> <sup>1</sup> (b) <input type="checkbox"/>	
3.	SEC USE ONLY	
4.	Citizenship or Place of Organization Delaware	
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1.	Name of reporting persons Venrock Healthcare Capital Partners III, L.P.	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input checked="" type="checkbox"/> <sup>1</sup> (b) <input type="checkbox"/>	
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2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input checked="" type="checkbox"/> <sup>1</sup> (b) <input type="checkbox"/>	
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1.	Name of reporting persons VHCP Management II, LLC	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input checked="" type="checkbox"/> <sup>1</sup> (b) <input type="checkbox"/>	
3.	SEC USE ONLY	
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1.	Name of Reporting Persons Shah, Nimish	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input checked="" type="checkbox"/> <sup>1</sup> (b) <input type="checkbox"/>	
3.	SEC USE ONLY	
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- 1 Venrock Healthcare Capital Partners II, L.P., VHCP Co-Investment Holdings II, LLC, Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, Venrock Healthcare Capital Partners EG, L.P., VHCP Management II, LLC, 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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- 3 This percentage is calculated based upon (i) 86,124,249 shares of the Issuer's Common Stock outstanding as of November 3, 2023, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2023 plus (ii) 4,354,677 shares of common stock issuable upon conversion of Series A stock held by the Reporting Persons.

1.	Name of Reporting Persons Koh, Bong		
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input checked="" type="checkbox"/> <sup>1</sup> (b) <input type="checkbox"/>		
3.	SEC USE ONLY		
4.	Citizenship or Place of Organization United States		
Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power	0
	6.	Shared Voting Power	9,038,844 <sup>2</sup>
	7.	Sole Dispositive Power	0
	8.	Shared Dispositive Power	9,038,844 <sup>2</sup>
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 9,038,844 <sup>2</sup>		
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="checkbox"/>		
11.	Percent of Class Represented by Amount in Row (9) 9.99% <sup>3</sup>		
12.	Type of Reporting Person (See Instructions) IN		

- 1 Venrock Healthcare Capital Partners II, L.P., VHCP Co-Investment Holdings II, LLC, Venrock Healthcare Capital Partners III, L.P., VHCP Co-Investment Holdings III, LLC, Venrock Healthcare Capital Partners EG, L.P., VHCP Management II, LLC, 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) 650,793 shares of common stock and 1,151,201 shares of common stock issuable upon the conversion of Series A stock held by Venrock Healthcare Capital Partners II, L.P., (ii) 263,919 shares of common stock and 465,668 shares of common stock issuable upon the conversion of Series A stock held by VHCP Co-Investment Holdings II, LLC, (iii) 1,939,600 shares of common stock and 2,489,534 shares of common stock issuable upon the conversion of Series A stock held by Venrock Healthcare Capital Partners III, L.P., (iv) 194,103 shares of common stock and 248,274 shares of common stock issuable upon the conversion of Series A stock held by VHCP Co-Investment Holdings III, LLC., and (v) 1,635,752 shares of common stock held by Venrock Healthcare Capital Partners EG, L.P. The share numbers in the preceding sentence represent the maximum number of shares of common stock issuable upon the voluntary conversion of the Reporting Persons' Series A stock pursuant to the Certificate of Designation for the Series A stock as a result of the blocker provision of the Certificate of Designation described in the following sentence. The Certificate of Designation provides that the holder of Series A stock will not have a right to convert, subject to certain exceptions, the Series A stock for common stock if, as a result of such conversion, the holder, together with its affiliates and other attribution parties, would exceed a beneficial ownership limitation to be set at the discretion of the holder between 4.9% and 19.9% of the number of shares of common stock outstanding immediately after giving effect to the issuance of the shares of common stock being converted. The Reporting Persons have set the beneficial ownership limitation at 9.99%.
- 3 This percentage is calculated based upon (i) 86,124,249 shares of the Issuer's Common Stock outstanding as of November 3, 2023, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2023 plus (ii) 4,354,677 shares of common stock issuable upon conversion of Series A stock held by the Reporting Persons.

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

**Item 1.**

## (a) Name of Issuer

Cogent Biosciences, Inc.

## (b) Address of Issuer’s Principal Executive Offices

200 Cambridge Park Drive, Suite 2500  
Cambridge, Massachusetts 02140

**Item 2.**

## (a) Name of Person Filing

Venrock Healthcare Capital Partners II, L.P.  
VHCP Co-Investment Holdings II, LLC  
Venrock Healthcare Capital Partners III, L.P.  
VHCP Co-Investment Holdings III, LLC  
Venrock Healthcare Capital Partners EG, L.P.  
VHCP Management II, LLC  
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:  
7 Bryant Park  
23rd Floor  
New York, NY 10018

Palo Alto Office:  
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 \$0.001 per share

## (e) CUSIP Number

19240Q201

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**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 II, L.P.	9,038,844(1)
VHCP Co-Investment Holdings II, LLC	9,038,844(1)
Venrock Healthcare Capital Partners III, L.P.	9,038,844(1)
VHCP Co-Investment Holdings III, LLC	9,038,844(1)
Venrock Healthcare Capital Partners EG, L.P.	9,038,844(1)
VHCP Management II, LLC	9,038,844(1)
VHCP Management III, LLC	9,038,844(1)
VHCP Management EG, LLC	9,038,844(1)
Nimish Shah	9,038,844(1)
Bong Koh	9,038,844(1)

## (b) Percent of Class as of December 31, 2023:

Venrock Healthcare Capital Partners II, L.P.	9.99%
VHCP Co-Investment Holdings II, LLC	9.99%
Venrock Healthcare Capital Partners III, L.P.	9.99%
VHCP Co-Investment Holdings III, LLC	9.99%
Venrock Healthcare Capital Partners EG, L.P.	9.99%
VHCP Management II, LLC	9.99%
VHCP Management III, LLC	9.99%
VHCP Management EG, LLC	9.99%
Nimish Shah	9.99%
Bong Koh	9.99%

## (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 II, L.P.	0
VHCP Co-Investment Holdings II, LLC	0
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 II, LLC	0
VHCP Management III, LLC	0
VHCP Management EG, LLC	0
Nimish Shah	0
Bong Koh	0

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

Venrock Healthcare Capital Partners II, L.P.	9,038,844(1)
VHCP Co-Investment Holdings II, LLC	9,038,844(1)
Venrock Healthcare Capital Partners III, L.P.	9,038,844(1)
VHCP Co-Investment Holdings III, LLC	9,038,844(1)
Venrock Healthcare Capital Partners EG, L.P.	9,038,844(1)
VHCP Management II, LLC	9,038,844(1)
VHCP Management III, LLC	9,038,844(1)
VHCP Management EG, LLC	9,038,844(1)
Nimish Shah	9,038,844(1)
Bong Koh	9,038,844(1)

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

Venrock Healthcare Capital Partners II, L.P.	0
VHCP Co-Investment Holdings II, LLC	0
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 II, LLC	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 II, L.P.	9,038,844(1)
VHCP Co-Investment Holdings II, LLC	9,038,844(1)
Venrock Healthcare Capital Partners III, L.P.	9,038,844(1)
VHCP Co-Investment Holdings III, LLC	9,038,844(1)
Venrock Healthcare Capital Partners EG, L.P.	9,038,844(1)
VHCP Management II, LLC	9,038,844(1)
VHCP Management III, LLC	9,038,844(1)
VHCP Management EG, LLC	9,038,844(1)
Nimish Shah	9,038,844(1)
Bong Koh	9,038,844(1)

- 1 Consists of (i) 650,793 shares of common stock and 1,151,201 shares of common stock issuable upon the conversion of Series A stock held by Venrock Healthcare Capital Partners II, L.P., (ii) 263,919 shares of common stock and 465,668 shares of common stock issuable upon the conversion of Series A stock held by VHCP Co-Investment Holdings II, LLC, (iii) 1,939,600 shares of common stock and 2,489,534 shares of common stock issuable upon the conversion of Series A stock held by Venrock Healthcare Capital Partners III, L.P., (iv) 194,103 shares of common stock and 248,274 shares of common stock issuable upon the conversion of Series A stock held by VHCP Co-Investment Holdings III, LLC., and (v) 1,635,752 shares of common stock held by Venrock Healthcare Capital Partners EG, L.P. The share numbers in the preceding sentence represent the maximum number of shares of common stock issuable upon the voluntary conversion of the Reporting Persons' Series A stock pursuant to the Certificate of Designation for the Series A stock as a result of the blocker provision of the Certificate of Designation described in the following sentence. The Certificate of Designation provides that the holder of Series A stock will not have a right to convert, subject to certain exceptions, the Series A stock for common stock if, as a result of such conversion, the holder, together with its affiliates and other attribution parties, would exceed a beneficial ownership limitation to be set at the discretion of the holder between 4.9% and 19.9% of the number of shares of common stock outstanding immediately after giving effect to the issuance of the shares of common stock being converted. The Reporting Persons have set the beneficial ownership limitation at 9.99%.
-

**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.**

Not Applicable

**Item 8. Identification and Classification of Members of the Group**

Not Applicable

**Item 9. Notice of Dissolution of a 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 that purpose or effect, other than activities solely in connection with a nomination under § 240.14a-11.

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**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 II, L.P.**

By: VHCP Management II, LLC  
Its: General Partner

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

**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 II, LLC**

By: VHCP Management II, LLC  
Its: Manager

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

**Venrock Healthcare Capital Partners EG, L.P.**

By: VHCP Management EG, LLC  
Its: General Partner

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

**VHCP Management II, LLC**

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

**VHCP Management III, LLC**

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

**Nimish Shah**

By: /s/ Sherman G. Souther  
Sherman G. Souther, as attorney-in-fact

**Bong Koh**

By: /s/ Sherman G. Souther  
Sherman G. Souther, as attorney-in-fact

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**EXHIBITS**

[A: Joint Filing Agreement](#)

[B: Power of Attorney for Nimish Shah \(incorporated by reference to Exhibit B to Schedule 13G filed on July 20, 2020\)](#)

[C: Power of Attorney for Bong Koh \(incorporated by reference to Exhibit C to Schedule 13G filed on July 20, 2020\)](#)

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**EXHIBIT A**

**JOINT FILING AGREEMENT**

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, the undersigned agree to the joint filing on behalf of each of them of a statement on Schedule 13G (including amendments thereto) with respect to the Common Stock of Cogent Biosciences, Inc. and further agree that this agreement be included as an exhibit to such filing. Each party to the agreement expressly authorizes each other party to file on its behalf any and all amendments to such statement. Each party to this agreement agrees that this joint filing agreement may be signed in counterparts.

In evidence whereof, the undersigned have caused this Agreement to be executed on their behalf this 14<sup>th</sup> day of February 14, 2024.

**Venrock Healthcare Capital Partners II, L.P.**

By: VHCP Management II, LLC  
Its: General Partner

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

**VHCP Co-Investment Holdings II, LLC**

By: VHCP Management II, LLC  
Its: Manager

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

**Venrock Healthcare Capital Partners EG, L.P.**

By: VHCP Management EG, LLC  
Its: General Partner

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

**VHCP Management II, LLC**

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

**Nimish Shah**

By: /s/ Sherman G. Souther  
Sherman G. Souther, as attorney-in-fact

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

**Bong Koh**

By: /s/ Sherman G. Souther  
Sherman G. Souther, as attorney-in-fact

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