# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

### **SCHEDULE 13G**

(Rule 13d-102)

Information to be Included in Statements Filed Pursuant to § 240.13d-1(b), (c) and (d) and Amendments Thereto Filed Pursuant to § 240.13d-2

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

ANNEXON, INC.

(Name of Issuer)

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

03589W102 (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(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, 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).

1	Name	s of I	Reporting Persons		
			al Life Sciences Fund, L.P.		
2	Check	the	Appropriate Box if a Member of a Group		
	(a) 🗆		(b) □		
3	SEC U	Jse C	Only		
4	Citize	nship	o or Place of Organization		
	Cayman Islands				
•		5	Sole Voting Power		
Nui	mber of		0 shares of Common Stock		
	hares eficially	6	Shared Voting Power		
	ned by		8,061,719 shares of Common Stock (1)		
Each Reporting		7	Sole Dispositive Power		
P	erson With		0 shares of Common Stock		
	WILII	8	Shared Dispositive Power		
ı			8,061,719 shares of Common Stock (1)		
9	Aggre	gate	Amount Beneficially Owned by Each Reporting Person		
	8,061,719 shares of Common Stock (1)				
10	Check	if th	ne Aggregate Amount in Row (9) Excludes Certain Shares		
11	Percer	t of	Class Represented by Amount in Row 9		
	9.99% (1)				
12	Type o	f Re	eporting Person		
	PN				

(1) As of the close of business on December 31, 2023, (i) Bain Capital Life Sciences Fund, L.P. held 2,940,627 shares of Common Stock, (ii) BCIP Life Sciences Associates, LP held 301,001 shares of Common Stock and (iii) BCLS I Investco, LP held 2,460,298 shares of Common Stock, warrants to purchase 774,943 shares of Common Stock and pre-funded warrants to purchase 2,739,475 shares of Common Stock. As a result of the Beneficial Ownership Blockers (as defined herein), beneficial ownership of the Reporting Persons (as defined herein) is capped at 9.99% of the outstanding shares of Common Stock, representing 8,061,719 shares of Common Stock calculated as described herein as of December 31, 2023.

The calculation of beneficial ownership of the Reporting Persons is based on (i) 78,338,098 shares of Common Stock issued and outstanding, as reported by the Issuer in its prospectus supplement filed with the Securities and Exchange Commission on December 21, 2023 and (ii) 2,359,793 shares of Common Stock to be issued upon the exercise of warrants and pre-funded warrants held by BCLS I Investco, LP, which reflects the Beneficial Ownership Blockers.

1	Names	e of l	Reporting Persons			
1	Ivanic	3 01 1	Acporting 1 crsons			
	BCIP	Life	Sciences Associates, LP			
2	Check	Check the Appropriate Box if a Member of a Group				
2	(a) 🗆					
3	SEC U	Jse (	Only			
4	Citize	nship	o or Place of Organization			
	Delaw	are				
		5	Sole Voting Power			
Nin	mber of		0 shares of Common Stock			
	hares	6	Shared Voting Power			
	eficially					
	ned by Each	7				
	porting	/	Sole Dispositive Power			
P	erson		0 shares of Common Stock			
,	With	8	Shared Dispositive Power			
			(1)			
9	Aggre	gate	Amount Beneficially Owned by Each Reporting Person			
	(1)					
10		if th	ne Aggregate Amount in Row (9) Excludes Certain Shares			
	П					
11	_	nt of	Class Represented by Amount in Row 9			
	(1)					
12	Type of Reporting Person					
	PN					
	111					

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Beneficial Ownership Blockers.

1	Names	of I	Reporting Persons
	BCLS	I Inv	vestco, LP
2	Check	the.	Appropriate Box if a Member of a Group
	(a) 🗆		(b) □
3	SEC U		
	~		
4	Citizei	ship	o or Place of Organization
	Delaw	are	
		5	Sole Voting Power
Nin	mber of		0 shares of Common Stock
Sl	hares	6	Shared Voting Power
	eficially		(1)
Owned by Each		7	Sole Dispositive Power
	porting erson		
	With		0 shares of Common Stock
With		8	Shared Dispositive Power
			(1)
9	Aggre	gate	Amount Beneficially Owned by Each Reporting Person
	(1)		
10	Check	if th	e Aggregate Amount in Row (9) Excludes Certain Shares
11	Percer	t of	Class Represented by Amount in Row 9
	(1)		
12	` '	f Re	porting Person
	D1.		
	PN		

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Beneficial Ownership Blockers.

#### Item 1(a) Name of Issuer

The name of the issuer to which this filing on Schedule 13G relates is Annexon, Inc. (the "Issuer").

#### Item 1(b) Address of Issuer's Principal Executive Offices

The principal executive offices of the Issuer are located at 1400 Sierra Point Parkway, Bldg C, Suite 200, Brisbane, California 94005.

#### Item 2(a) Name of Person Filing

This Schedule 13G is being filed jointly by Bain Capital Life Sciences Fund, L.P., a Cayman Islands exempted limited partnership ("BCLS Fund I"), BCIP Life Sciences Associates, LP, a Delaware limited partnership ("BCLS I Investco, LP, a Delaware limited partnership ("BCLS I Investco" and, together with BCLS Fund I and BCIPLS, the "Reporting Persons").

Bain Capital Life Sciences Investors, LLC, a Delaware limited liability company ("BCLSI"), is the general partner of Bain Capital Life Sciences Partners, LP, a Cayman Islands exempted limited partnership ("BCLSP"), which is the general partner of BCLS Fund I.

Boylston Coinvestors, LLC, a Delaware limited liability company ("Boylston"), is the general partner of BCIPLS. BCLSI governs the investment strategy and decision-making process with respect to investments held by BCIPLS.

BCLS I Investco GP, LLC, a Delaware limited liability company ("BCLS I Investco GP" and, together with the Reporting Persons, BCLSI, BCLSP and Boylston, the "Bain Capital Life Sciences Entities"), whose manager is BCLS Fund I, is the general partner of BCLS I Investco.

As a result, BCLSI may be deemed to share voting and dispositive power with respect to the securities held by the Reporting Persons.

The Reporting Persons have entered into a Joint Filing Agreement, dated February 13, 2024, pursuant to which the Reporting Persons have agreed to file this Schedule 13G jointly in accordance with the provisions of Rule 13d-1(k)(1) promulgated under the Act.

#### Item 2(b) Address of Principal Business Office or, if None, Residence

The principal business address for each of the Bain Capital Life Sciences Entities is 200 Clarendon Street, Boston, Massachusetts 02116.

#### Item 2(c) Citizenship

BCLS Fund I and BCLSP are organized under the laws of the Cayman Islands. BCIPLS, BCLS I Investco, BCLSI, Boylston and BCLS I Investco GP are organized under the laws of the State of Delaware.

#### Item 2(d) Title of Class of Securities

The class of securities of the Issuer to which this Schedule 13G relates is Common Stock, \$0.001 par value per share ("Common Stock").

#### Item 2(e) CUSIP Number

The CUSIP number of the Common Stock is 03589W102.

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

(a)	Broker or dealer registered under section 15 of the Act (15 U.S.C. 780);
(b)	Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
(c)	Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
(d)	Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
(e)	An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);
(f)	An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);
(g)	A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
(h)	A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
(i)	A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act (15 U.S.C. 80a-3);
(j)	A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J);
(k)	Group, in accordance with § 240.13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:

#### Item 4 Ownership

Item 3

#### (a) Amount beneficially owned:

As of the close of business on December 31, 2023, (i) BCLS Fund I held 2,940,627 shares of Common Stock, (ii) BCIPLS held 301,001 shares of Common Stock and (iii) BCLS I Investco held 2,460,298 shares of Common Stock, warrants to purchase 774,943 shares of Common Stock and pre-funded warrants to purchase 2,739,475 shares of Common Stock.

BCLS I Investoo is prohibited from exercising the warrants to purchase Common Stock or the pre-funded warrants to purchase Common Stock if, as a result of such exercise, the Reporting Persons would beneficially own more than 9.99% of the total number of shares of Common Stock then issued and outstanding immediately after giving effect to the exercise (the "Beneficial Ownership Blockers"). Accordingly, pursuant to Rule 13d-3 of the Act and the relationships described herein, the Reporting Persons may be deemed to collectively beneficially own 9.99% of the outstanding shares of Common Stock, representing 8,061,719 shares of Common Stock as of December 31, 2023.

The calculation of beneficial ownership of the Reporting Persons is based on (i) 78,338,098 shares of Common Stock issued and outstanding, as reported by the Issuer in its prospectus supplement filed with the Securities and Exchange Commission on December 21, 2023 and (ii) 2,359,793 shares of Common Stock to be issued upon the exercise of warrants and pre-funded warrants held by BCLS I Investco, LP, which reflects the Beneficial Ownership Blockers.

#### (b) Percent of class:

See Item 4(a) hereof.

#### (c) Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote:

0 shares of Common Stock

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

See Item 4(a) hereof.

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

0 shares of Common Stock

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

See Item 4(a) hereof.

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

Not applicable

#### 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 Group

Not applicable.

#### Item 10 Certifications

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.

#### **SIGNATURES**

After reasonable inquiry and to the best of its knowledge and belief, the undersigned certifies that the information in this statement is true, complete and correct.

Dated: February 13,2024

#### Bain Capital Life Sciences Fund, L.P.

By: Bain Capital Life Sciences Partners, LP its general partner

By: Bain Capital Life Sciences Investors, LLC its general partner

By: /s/ Ricky Sun

Name: Ricky Sun Title: Partner

#### **BCIP Life Sciences Associates, LP**

By: Boylston Coinvestors, LLC its general partner

By: /s/ Ricky Sun

Name: Ricky Sun

Title: Authorized Signatory

#### BCLS I Investco, LP

By: BCLS I Investco GP, LLC, its general partner

By: Bain Capital Life Sciences Fund, L.P., its manager

By: Bain Capital Life Sciences Partners, LP, its general partner

By: Bain Capital Life Sciences Investors, LLC, its general partner

By: /s/ Ricky Sun

Name: Ricky Sun Title: Partner

### AGREEMENT REGARDING THE JOINT FILING OF SCHEDULE 13G

The undersigned hereby agree as follows:

- (i) Each of them is individually eligible to use the Schedule 13G to which this Exhibit is attached, and such Schedule 13G is filed on behalf of each of them; and
- (ii) Each of them is responsible for the timely filing of such Schedule 13G and any amendments thereto, and for the completeness and accuracy of the information concerning such person contained therein; but none of them is responsible for the completeness or accuracy of the information concerning the other persons making the filing, unless such person knows or has reason to believe that such information is inaccurate.

Dated: February 13, 2024

#### Bain Capital Life Sciences Fund, L.P.

By: Bain Capital Life Sciences Partners, LP its general partner

By: Bain Capital Life Sciences Investors, LLC its general partner

By: /s/ Ricky Sun Name: Ricky Sun Title: Partner

#### **BCIP Life Sciences Associates, LP**

By: Boylston Coinvestors, LLC its general partner

By: /s/ Ricky Sun Name: Ricky Sun

Title: Authorized Signatory

#### BCLS I Investco, LP

By: BCLS I Investco GP, LLC, its general partner

By: Bain Capital Life Sciences Fund, L.P., its manager

By: Bain Capital Life Sciences Partners, LP, its general partner

By: Bain Capital Life Sciences Investors, LLC,

its general partner

By: /s/ Ricky Sun

Name: Ricky Sun Title: Partner