
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934
(Amendment No. 1)*

Q32 Bio Inc.

(Name of Issuer)

Common Stock, par value \$0.0001 per share

(Title of Class of Securities)

(CUSIP Number)

06/30/2026

(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)

SCHEDULE 13G

CUSIP No.

Names of Reporting Persons

1

The Carlyle Group Inc.

Check the appropriate box if a member of a Group (see instructions)

2

(a)

(b)

3

Sec Use Only

Citizenship or Place of Organization

4

DELAWARE

Number of Shares Beneficially Owned by Each Reporting Person With: 5 Sole Voting Power
 0.00
 Shared Voting Power
 6
 691,735.00
 Sole Dispositive Power
 7
 0.00
 Shared Dispositive Power
 8
 691,735.00

9 Aggregate Amount Beneficially Owned by Each Reporting Person
 691,735.00
 10 Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)

 11 Percent of class represented by amount in row (9)
 4.1 %
 12 Type of Reporting Person (See Instructions)
 CO

SCHEDULE 13G

CUSIP No.

1 Names of Reporting Persons
 Carlyle Holdings I GP Inc.
 Check the appropriate box if a member of a Group (see instructions)
 2 (a)
 (b)

3 Sec Use Only
 4 Citizenship or Place of Organization

DELAWARE
 Sole Voting Power
 5
 0.00
 Shared Voting Power
 6
 691,735.00
 Sole Dispositive Power
 7
 0.00
 Shared Dispositive Power
 8
 691,735.00

9 Aggregate Amount Beneficially Owned by Each Reporting Person
 691,735.00
 10 Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)

11 Percent of class represented by amount in row (9)

4.1 %

Type of Reporting Person (See Instructions)

12

CO

SCHEDULE 13G

CUSIP No.

Names of Reporting Persons

1

Carlyle Holdings I GP Sub L.L.C.

Check the appropriate box if a member of a Group (see instructions)

2

(a)

(b)

3

Sec Use Only

Citizenship or Place of Organization

4

DELAWARE

Sole Voting Power

5

0.00

Number of
Shares
Beneficially
Owned by
Each
Reporting
Person
With:

Shared Voting Power

6

691,735.00

Sole Dispositive Power

7

0.00

Shared Dispositive

8

Power

691,735.00

Aggregate Amount Beneficially Owned by Each Reporting Person

9

691,735.00

Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)

10

Percent of class represented by amount in row (9)

11

4.1 %

Type of Reporting Person (See Instructions)

12

OO

Comment for Type of Reporting Person: Limited Liability Company

SCHEDULE 13G

CUSIP No.

Names of Reporting Persons

1

Carlyle Holdings I L.P.

2 Check the appropriate box if a member of a Group (see instructions)

(a)

(b)

3 Sec Use Only

Citizenship or Place of Organization

4

DELAWARE

Sole Voting Power

5

0.00

Number of Shares

Shared Voting Power

Beneficially

6

691,735.00

Owned by

Sole Dispositive Power

Each

7

0.00

Reporting

Person

Shared Dispositive

With:

8

Power

691,735.00

Aggregate Amount Beneficially Owned by Each Reporting Person

9

691,735.00

Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)

10

Percent of class represented by amount in row (9)

11

4.1 %

Type of Reporting Person (See Instructions)

12

PN

SCHEDULE 13G

CUSIP No.

Names of Reporting Persons

1

CG Subsidiary Holdings L.L.C.

Check the appropriate box if a member of a Group (see instructions)

2

(a)

(b)

3 Sec Use Only

Citizenship or Place of Organization

4

DELAWARE

Number of Shares

Sole Voting Power

5

Beneficially

0.00

Owned by

Shared Voting Power

Each

6

691,735.00

Reporting

Person

Sole Dispositive Power

With:

7

0.00

8 Shared Dispositive

Power

691,735.00

Aggregate Amount Beneficially Owned by Each Reporting Person

9

691,735.00

Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)

10

Percent of class represented by amount in row (9)

11

4.1 %

Type of Reporting Person (See Instructions)

12

OO

Comment for Type of Reporting Person: Limited Liability Company

SCHEDULE 13G

CUSIP No.

Names of Reporting Persons

1

TC Group, L.L.C.

Check the appropriate box if a member of a Group (see instructions)

2

(a)

(b)

3

Sec Use Only

Citizenship or Place of Organization

4

DELAWARE

Sole Voting Power

5

0.00

Number of
Shares
Beneficially
Owned by
Each
Reporting
Person
With:

6

Shared Voting Power

691,735.00

7

Sole Dispositive Power

8

0.00

Shared Dispositive

9

Power

691,735.00

Aggregate Amount Beneficially Owned by Each Reporting Person

9

691,735.00

Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)

10

Percent of class represented by amount in row (9)

11

4.1 %

Type of Reporting Person (See Instructions)

12

OO

Comment for Type of Reporting Person: Limited Liability Company

SCHEDULE 13G

CUSIP No.

1 Names of Reporting Persons
Carlyle Investment Management L.L.C.
Check the appropriate box if a member of a Group (see instructions)

2 (a)
 (b)

3 Sec Use Only

4 Citizenship or Place of Organization
DELAWARE

5 Sole Voting Power
0.00

Number of Shares Beneficially Owned by Each Reporting Person With:

6 Shared Voting Power
691,735.00

7 Sole Dispositive Power
0.00

8 Shared Dispositive Power
691,735.00

9 Aggregate Amount Beneficially Owned by Each Reporting Person
691,735.00
Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)

10

11 Percent of class represented by amount in row (9)
4.1 %

12 Type of Reporting Person (See Instructions)
OO

Comment for Type of Reporting Person: Limited Liability Company

SCHEDULE 13G

CUSIP No.

1 Names of Reporting Persons
Carlyle Genesis UK LLC
Check the appropriate box if a member of a Group (see instructions)

2 (a)
 (b)

3 Sec Use Only

4 Citizenship or Place of Organization

DELAWARE

		Sole Voting Power
	5	0.00
Number of Shares Beneficially Owned by Each Reporting Person With:		Shared Voting Power
	6	691,735.00
		Sole Dispositive Power
	7	0.00
		Shared Dispositive Power
	8	691,735.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person	
		691,735.00
10	Check box 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)	
		4.1 %
12	Type of Reporting Person (See Instructions)	
		OO

Comment for Type of Reporting Person: Limited Liability Company

SCHEDULE 13G

CUSIP No.

1	Names of Reporting Persons	
		Abingworth LLP
	Check the appropriate box if a member of a Group (see instructions)	
2		<input type="checkbox"/> (a)
		<input type="checkbox"/> (b)
3	Sec Use Only	
4	Citizenship or Place of Organization	
	UNITED KINGDOM	
		Sole Voting Power
	5	0.00
Number of Shares Beneficially Owned by Each Reporting Person With:		Shared Voting Power
	6	691,735.00
		Sole Dispositive Power
	7	0.00
		Shared Dispositive Power
	8	691,735.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person	

691,735.00

Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)

10

Percent of class represented by amount in row (9)

11

4.1 %

Type of Reporting Person (See Instructions)

12

PN

SCHEDULE 13G

CUSIP No.

Names of Reporting Persons

1

Abingworth Bioventures VII LP

Check the appropriate box if a member of a Group (see instructions)

2

(a)

(b)

3

Sec Use Only

Citizenship or Place of Organization

4

UNITED KINGDOM

Sole Voting Power

5

0.00

Shared Voting Power

6

691,735.00

Sole Dispositive Power

7

0.00

Shared Dispositive

8

Power

691,735.00

Aggregate Amount Beneficially Owned by Each Reporting Person

9

691,735.00

Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)

10

Percent of class represented by amount in row (9)

11

4.1 %

Type of Reporting Person (See Instructions)

12

PN

SCHEDULE 13G

Item 1.

Name of issuer:

(a)

Q32 Bio Inc.

Address of issuer's principal executive offices:

- (b) 830 Winter Street, Waltham, MA, 02451

Item 2.

Name of person filing:

- (a) Each of the following is hereinafter individually referred to as a "Reporting Person" and collectively as the "Reporting Persons." This statement is filed on behalf of: The Carlyle Group Inc. Carlyle Holdings I GP Inc. Carlyle Holdings I GP Sub L.L.C. Carlyle Holdings I L.P. CG Subsidiary Holdings L.L.C. TC Group, L.L.C. Carlyle Investment Management L.L.C. Carlyle Genesis UK LLC Abingworth LLP Abingworth Bioventures VII LP
Address or principal business office or, if none, residence:

- (b) The principal business address of each of Abingworth LLP and Abingworth Bioventures VII LP is 38 Jermyn Street, London, SW1Y 6DN, England, United Kingdom. The principal business address of each of the other Reporting Persons is c/o The Carlyle Group, 1001 Pennsylvania Ave. NW, Suite 220 South, Washington, DC 20004-2505.
Citizenship:

- (c) Each of Abingworth LLP and Abingworth Bioventures VII LP is organized under the laws of England and Wales. Each of the other Reporting Persons is organized under the laws of the State of Delaware.

Title of class of securities:

- (d) Common Stock, par value \$0.0001 per share

- (e) CUSIP No.:

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:

- (a) Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o);
- (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 associations 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 of 1940 (15 U.S.C. 80a-3);
- (j) A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J). If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:
- (k) Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K).

Item 4. Ownership

Amount beneficially owned:

The information contained on the cover pages to this Schedule 13G is incorporated by reference into this Item 4. The ownership information presented below represents beneficial ownership of Common Stock of the Issuer as of June 18, 2026, based upon 16,956,415 shares of Common Stock outstanding, as disclosed in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on May 5, 2026. Abingworth Bioventures VII LP is the record holder of the shares of Common Stock reported herein. The Carlyle Group Inc., which is a publicly traded entity listed on Nasdaq, is the sole shareholder of Carlyle Holdings I GP Inc., which is the sole member of Carlyle Holdings I GP Sub L.L.C., which is the general partner of Carlyle Holdings I L.P., which, with respect to the securities reported herein, is the managing member of CG Subsidiary Holdings L.L.C., which is the managing member of TC Group, L.L.C., which is the managing member of Carlyle Investment Management L.L.C., which is the sole member of Carlyle Genesis UK LLC, which is the principal member of Abingworth LLP. Abingworth Bioventures VII LP has delegated to Abingworth LLP all investment and dispositive power over the securities held of record by them. Accordingly, each of the foregoing entities may be deemed to share beneficial ownership of the securities held of record by Abingworth Bioventures VII LP, but each disclaims beneficial ownership of such securities.

Percent of class:

- (b) 4.1% %

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

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

0

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

691,735

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

0

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

691,735

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

Ownership of 5 percent or less of a class

Item 6. Ownership of more than 5 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.

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.

The Carlyle Group Inc.

Signature: /s/ Anne K. Frederick

Name/Title: Anne K. Frederick, Corporate Secretary

Date: 07/06/2026

Carlyle Holdings I GP Inc.

Signature: /s/ Anne K. Frederick

Name/Title: Anne K. Frederick, Managing Director

Date: 07/06/2026

Carlyle Holdings I GP Sub L.L.C.

Signature: By: Carlyle Holdings I GP Inc., its sole member,
/s/ Anne K. Frederick

Name/Title: Anne K. Frederick, Managing Director

Date: 07/06/2026

Carlyle Holdings I L.P.

Signature: /s/ Anne K. Frederick

Name/Title: Anne K. Frederick, Managing Director

Date: 07/06/2026

CG Subsidiary Holdings L.L.C.

Signature: /s/ Anne K. Frederick
Name/Title: Anne K. Frederick, Managing Director
Date: 07/06/2026

TC Group, L.L.C.

Signature: /s/ Anne K. Frederick
Name/Title: Anne K. Frederick, Managing Director
Date: 07/06/2026

Carlyle Investment Management L.L.C.

Signature: /s/ Anne K. Frederick
Name/Title: Anne K. Frederick, Managing Director
Date: 07/06/2026

Carlyle Genesis UK LLC

Signature: By: Carlyle Investment Management L.L.C., its
sole member, /s/ Anne K. Frederick
Name/Title: Anne K. Frederick, Managing Director
Date: 07/06/2026

Abingworth LLP

Signature: /s/ Emma O'Reilly
Name/Title: Emma O'Reilly. Authorized Signatory
Date: 07/06/2026

Abingworth Bioventures VII LP

Signature: /s/ Emma O'Reilly
Name/Title: Emma O'Reilly. Authorized Signatory
Date: 07/06/2026

Exhibit Information

Exhibit 99: Joint Filing Agreement (previously filed)