

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

Lexeo Therapeutics, Inc.

(Name of Issuer)

Common Stock, par value \$0.0001 per share

(Title of Class of Securities)

52886X107

(CUSIP Number)

06/30/2025

(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. 52886X107

1

Names of Reporting Persons

Balyasny Asset Management L.P.

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

5

Sole Voting Power

Beneficially	8,345,651.00
Owned by	Shared Voting Power
Each	6
Reporting	0.00
Person	Sole Dispositive Power
With:	7
	8,345,651.00
	Shared Dispositive
	8 Power
	0.00

9 Aggregate Amount Beneficially Owned by Each Reporting Person

8,345,651.00

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

☐

Percent of class represented by amount in row (9)

11 9.99 %

12 Type of Reporting Person (See Instructions)

IA, PN

SCHEDULE 13G

CUSIP No. 52886X107

1 Names of Reporting Persons

BAM GP 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 8,345,651.00

Number of Shares Beneficially Owned by Each Reporting Person With: 6 Shared Voting Power

0.00
Sole Dispositive Power

7 8,345,651.00

Shared Dispositive
8 Power

0.00

9 Aggregate Amount Beneficially Owned by Each Reporting Person

8,345,651.00

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)

9.99 %
Type of Reporting Person (See Instructions)
12
HC, OO

SCHEDULE 13G

CUSIP No. 52886X107

1

Names of Reporting Persons

Balyasny Asset Management Holdings LP

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

8,345,651.00

Number of
Shares
Beneficially
Owned by
Each
Reporting
Person
With:

6

0.00

Sole Dispositive Power

7

8,345,651.00

Shared Dispositive
Power

8

0.00

Aggregate Amount Beneficially Owned by Each Reporting Person

9

8,345,651.00

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

9.99 %

Type of Reporting Person (See Instructions)

12

HC, PN

SCHEDULE 13G

CUSIP No. 52886X107

1

Names of Reporting Persons

Dames GP LLC

2

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

	☐ (a)
	☐ (b)
3	Sec Use Only
4	Citizenship or Place of Organization
	DELAWARE
	Sole Voting Power
5	8,345,651.00
Number of Shares Beneficially Owned by Each Reporting Person With:	Shared Voting Power
6	0.00
	Sole Dispositive Power
7	8,345,651.00
	Shared Dispositive Power
8	0.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person
	8,345,651.00
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)
	9.99 %
12	Type of Reporting Person (See Instructions)
	HC, OO

SCHEDULE 13G

CUSIP No. 52886X107

1	Names of Reporting Persons
	Dmitry Balyasny
2	Check the appropriate box if a member of a Group (see instructions)
	☐ (a)
	☐ (b)
3	Sec Use Only
4	Citizenship or Place of Organization
	UNITED STATES
Number of Shares Beneficially Owned by Each Reporting Person With:	Sole Voting Power
5	8,345,651.00
	Shared Voting Power
6	0.00
	Sole Dispositive Power
7	8,345,651.00
8	Shared Dispositive Power

0.00

Aggregate Amount Beneficially Owned by Each Reporting Person

8,345,651.00

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



Percent of class represented by amount in row (9)

9.99 %

Type of Reporting Person (See Instructions)

HC, IN

SCHEDULE 13G

Item 1.

Name of issuer:

(a)

Lexeo Therapeutics, Inc.

Address of issuer's principal executive offices:

(b)

345 Park Avenue South, Floor 6, New York, NY, 10010, UNITED STATES

Item 2.

Name of person filing:

(a)

This statement is being filed by (1) Balyasny Asset Management L.P., a Delaware limited partnership ("BAM"), (2) BAM GP LLC, a Delaware limited liability company ("BAM GP"), (3) Balyasny Asset Management Holdings LP, a Delaware limited partnership ("BAM Holdings"), (4) Dames GP LLC, a Delaware limited liability company ("Dames"), and (5) Dmitry Balyasny, a United States citizen (collectively, the "Reporting Persons"). BAM GP is the General Partner of BAM. BAM Holdings is the Sole Member of BAM GP. Dames is the General Partner of BAM Holdings. Dmitry Balyasny is the Managing Member of Dames.

Address or principal business office or, if none, residence:

(b)

The principal business address of each of BAM, BAM GP, BAM Holdings, Dames, and Mr. Balyasny is located at 444 West Lake Street, 50th Floor, Chicago, IL 60606.

Citizenship:

(c)

(1) BAM is a Delaware limited partnership, (2) BAM GP is a Delaware limited liability company, (3) BAM Holdings is a Delaware limited partnership, (4) Dames is a Delaware limited liability company, and (5) Mr. Balyasny is a United States citizen.

Title of class of securities:

(d)

Common Stock, par value \$0.0001 per share

CUSIP No.:

(e)

52886X107

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:

- (a) By virtue of its position as the investment manager of Atlas Diversified Master Fund, Ltd. ("ADMF"), the direct holder of the 8,345,651 shares (including 4,336,514 shares of Common Stock issuable upon exercise of Warrants) of common stock, par value \$0.0001 per share ("Shares"), reported herein, BAM may be deemed to exercise voting and investment power over such Shares held by ADMF and thus may be deemed to beneficially own such Shares. By virtue of its position as the General Partner of BAM, BAM GP may be deemed to exercise voting and investment power over the Shares held directly by ADMF and thus may be deemed to beneficially own such Shares. By virtue of its position as the Sole Member of BAM GP, BAM Holdings may be deemed to exercise voting and investment power over the Shares held directly by ADMF and thus may be deemed to beneficially own such Shares. By virtue of its position as the General Partner of BAM Holdings, Dames may be deemed to exercise voting and investment power over the Shares held directly by ADMF and thus may be deemed to beneficially own such Shares. By virtue of his position as the Managing Member of Dames, Mr. Balyasny may be deemed to exercise voting and investment power over the Shares held directly by ADMF and thus may be deemed to beneficially own such Shares.

Percent of class:

- (b) Each of the Reporting Persons may be deemed to be the beneficial owner of approximately 9.99% of the Shares, calculated based on 33,196,997 Shares outstanding as of May 12, 2025, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on May 15, 2025 and assumes the exercise of certain pre-funded warrants and common warrants (the "Warrants") to purchase Common Stock of the Company held by Reporting Persons up to the 9.99% Blocker (as defined below). Pursuant to the terms of the Warrants, the Reporting Persons cannot exercise any of the Warrants to the extent the Reporting Persons would beneficially own, after any such exercise, more than 9.99% of the outstanding Common Stock (the "9.99% Blocker") and the percentage set forth in Row (11) of the cover page for each Reporting Person gives effect to the 9.99% Blocker. Consequently, at this time, the Reporting Persons are not able to exercise all of such Warrants due to the 9.99% Blocker. %

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

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

Each of the Reporting Persons has the sole power to dispose or to direct the disposition of 8,345,651 Shares (including 4,336,514 shares of Common Stock issuable upon exercise of Warrants).

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

0

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

Each of the Reporting Persons has the sole power to dispose or to direct the disposition of 8,345,651 Shares (including 4,336,514 shares of Common Stock issuable upon exercise of Warrants).

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

0

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

Item 6. Ownership of more than 5 Percent on Behalf of Another Person.

If any other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities, a statement to that effect should be included in response to this item and, if such interest relates to more than 5 percent of the class, such person should be identified. A listing of the shareholders of an investment company registered under the Investment Company Act of 1940 or the beneficiaries of employee benefit plan, pension fund or endowment fund is not required.

ADMF, a Cayman Islands exempted company that is an investment management client of BAM, has the right to receive dividends from, or the proceeds from the sale of, the reported securities.

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 acquired and are held in the ordinary course of business and 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.

Balyasny Asset Management L.P.

Signature: /s/ Scott Schroeder

Name/Title: Scott Schroeder / Authorized Signatory

Date: 08/10/2025

BAM GP LLC

Signature: /s/ Scott Schroeder

Name/Title: Scott Schroeder / Authorized Signatory

Date: 08/10/2025

Balyasny Asset Management Holdings LP

Signature: /s/ Scott Schroeder

Name/Title: Scott Schroeder / Authorized Signatory

Date: 08/10/2025

Dames GP LLC

Signature: /s/ Scott Schroeder

Name/Title: Scott Schroeder / Authorized Signatory

Date: 08/10/2025

Dmitry Balyasny

Signature: /s/ Dmitry Balyasny

Name/Title: Dmitry Balyasny / Self

Date: 08/10/2025