

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

(Amendment No. 6)*

DYNE THERAPEUTICS, INC.

(Name of Issuer)

COMMON STOCK, \$0.0001 PAR VALUE

(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.

1

Names of Reporting Persons

Atlas Venture Fund XI, 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 Beneficially Owned by Each Reporting Person With:	5	Sole Voting Power
	0.00	
		Shared Voting Power
	6	
	4,476,487.00	
		Sole Dispositive Power
	7	
	0.00	
		Shared Dispositive Power
	8	
	4,476,487.00	
9	Aggregate Amount Beneficially Owned by Each Reporting Person	
	4,476,487.00	
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)	
	2.4 %	
12	Type of Reporting Person (See Instructions)	
	PN	

SCHEDULE 13G

CUSIP No.

1	Names of Reporting Persons	
	Atlas Venture Associates XI, L.P.	
	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	
	4,479,449.00	
		Sole Dispositive Power
	7	
	0.00	
		Shared Dispositive Power
	8	
	4,479,449.00	
9	Aggregate Amount Beneficially Owned by Each Reporting Person	
	4,479,449.00	
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)
	2.4 %
	Type of Reporting Person (See Instructions)
12	PN

SCHEDULE 13G

CUSIP No.

	Names of Reporting Persons
1	Atlas Venture Associates XI, LLC
	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
	Shared Voting Power
6	4,479,449.00
	Sole Dispositive Power
7	0.00
	Shared Dispositive
8	Power

Number of
Shares
Beneficially
Owned by
Each
Reporting
Person
With:

	4,479,449.00
--	--------------

	Aggregate Amount Beneficially Owned by Each Reporting Person
9	4,479,449.00
	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	2.4 %
	Type of Reporting Person (See Instructions)
12	OO

SCHEDULE 13G

CUSIP No.

	Names of Reporting Persons
1	Atlas Venture Opportunity Fund 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

6

Beneficially
Owned by

975,931.00

Each

Sole Dispositive Power

7

Reporting

0.00

Person

Shared Dispositive

With:

Power

8

975,931.00

Aggregate Amount Beneficially Owned by Each Reporting Person

9

975,931.00

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

0.5 %

Type of Reporting Person (See Instructions)

12

PN

SCHEDULE 13G

CUSIP No.

Names of Reporting Persons

1

Atlas Venture Associates Opportunity I, 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

0.00

Beneficially
Owned by

Shared Voting Power

6

Each

975,931.00

Reporting

Sole Dispositive Power

Person

7

0.00

8 Shared Dispositive

Power

	975,931.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person
	975,931.00
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)
	0.5 %
12	Type of Reporting Person (See Instructions)
	PN

SCHEDULE 13G

CUSIP No.

1	Names of Reporting Persons
	Atlas Venture Associates Opportunity I, 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	975,931.00
	Sole Dispositive Power
7	0.00
	Shared Dispositive Power
8	975,931.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person
	975,931.00
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)
	0.5 %
12	Type of Reporting Person (See Instructions)
	OO

SCHEDULE 13G

CUSIP No.

1	Names of Reporting Persons	
	Atlas Venture Opportunity Fund II, 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	
	Sole Voting Power	
5	0.00	
Number of	Shared Voting Power	
Shares	6	1,344,719.00
Beneficially	Sole Dispositive Power	
Owned by	7	0.00
Each	Shared Dispositive	
Reporting	8	Power
Person	1,344,719.00	
With:	Aggregate Amount Beneficially Owned by Each Reporting Person	
9	1,344,719.00	
	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	0.7 %	
	Type of Reporting Person (See Instructions)	
12	PN	

SCHEDULE 13G**CUSIP No.**

1	Names of Reporting Persons	
	Atlas Venture Associates Opportunity II, 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	
	Sole Voting Power	
5	0.00	
Number of	Shared Voting Power	
Shares	6	
Beneficially		
Owned by		
Each		

Reporting Person	1,344,719.00
With:	Sole Dispositive Power
7	0.00
	Shared Dispositive Power
8	1,344,719.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person
	1,344,719.00
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)
	0.7 %
12	Type of Reporting Person (See Instructions)
	PN

SCHEDULE 13G

CUSIP No.

1	Names of Reporting Persons
	Atlas Venture Associates Opportunity II, 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
	Shared Voting Power
6	1,344,719.00
	Sole Dispositive Power
7	0.00
	Shared Dispositive Power
8	1,344,719.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person
	1,344,719.00
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)
	0.7 %
12	Type of Reporting Person (See Instructions)

SCHEDULE 13G

Item 1.

Name of issuer:

(a)

DYNE THERAPEUTICS, INC.

Address of issuer's principal executive offices:

(b)

1560 TRAPELO ROAD, WALTHAM, MA, 02451.

Item 2.

Name of person filing:

(a)

This Schedule 13G is filed by (i) Atlas Venture Fund XI, L.P., a Delaware limited partnership ("Atlas XI"), (ii) Atlas Venture Associates XI, L.P., a Delaware limited partnership ("AVA XI LP"), (iii) Atlas Venture Associates XI, LLC, a Delaware limited liability company ("AVA XI LLC" and together with Atlas XI and AVA XI LP, the "Fund XI Reporting Persons"), (iv) Atlas Venture Opportunity Fund I, L.P., a Delaware limited partnership ("AVO I"), (v) Atlas Venture Associates Opportunity I, L.P., a Delaware limited partnership ("AVAO LP"), (vi) Atlas Venture Associates Opportunity I, LLC, a Delaware limited liability company ("AVAO LLC" and together with AVO I and AVAO LP, the "Opportunity Fund Reporting Persons"), (vii) Atlas Venture Opportunity Fund II, L.P., a Delaware limited partnership ("AVO II"), (viii) Atlas Venture Associates Opportunity II, L.P., a Delaware limited partnership ("AVAO II LP") and (ix) Atlas Venture Associates Opportunity II, LLC, a Delaware limited liability company ("AVAO II LLC" and together with AVO II and AVAO II LP, the "Opportunity Fund II Reporting Persons" and together with the Fund XI Reporting Persons and Opportunity Fund Reporting Persons, the "Reporting Persons").

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

(b)

300 Technology Square, 8th Floor Cambridge, Massachusetts 02139

Citizenship:

(c)

Each of Atlas XI, AVA XI LP, AVO I, AVAO LP, AVO II and AVAO II LP is a Delaware limited partnership. Each of AVA XI LLC, AVAO LLC and AVAO II LLC is a Delaware limited liability company.

Title of class of securities:

(d)

COMMON STOCK, \$0.0001 PAR VALUE

(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

(a)

Amount beneficially owned:

Atlas XI is the record owner of 4,476,487 shares of Common Stock. AVA XI LP is the general partner of Atlas XI and AVA XI LLC is the general partner of AVA XI LP. Each of Atlas XI, AVA XI LP and AVA XI LLC has shared

voting and dispositive power over the shares held by Atlas XI. As such, each of Atlas XI, AVA XI LP and AVA XI LLC may be deemed to beneficially own the shares held by Atlas XI. AVA XI LP is the record owner of 2,962 shares of Common Stock. AVA XI LLC is the general partner of AVA XI LP. Each of AVA XI LP and AVA XI LLC has shared voting and dispositive power over the shares held by AVA XI LP. As such, each of AVA XI LP and AVA XI LLC may be deemed to beneficially own the shares held by AVA XI LP. AVO I is the record owner of 975,931 shares of Common Stock. AVAO LP is the general partner of AVO I and AVAO LLC is the general partner of AVAO LP. Each of AVO I, AVAO LP and AVAO LLC has shared voting and dispositive power over the shares held by AVO I. As such, each of AVO I, AVAO LP and AVAO LLC may be deemed to beneficially own the shares held by AVO I. AVO II is the record owner of 1,344,719 shares of Common Stock. AVAO II LP is the general partner of AVO II and AVAO II LLC is the general partner of AVAO II LP. Each of AVO II, AVAO II LP and AVAO II LLC has shared voting and dispositive power over the shares held by AVO II. As such, each of AVO II, AVAO II LP and AVAO II LLC may be deemed to beneficially own the shares held by AVO II.

Percent of class:

(b) Each of the Fund XI Reporting Persons may be deemed to beneficially own 2.4% of the Issuer's outstanding Common Stock. Each of the Opportunity Fund Reporting Persons may be deemed to beneficially own 0.5% of the Issuer's outstanding Common Stock. Each of the Opportunity Fund II Reporting Persons may be deemed to beneficially own 0.7%, of the Issuer's outstanding Common Stock. These percentages are calculated based upon 186,746,431 outstanding shares of Common Stock of the Issuer as of July 24, 2026, as reported in the Issuer's Form 10-Q, filed with the Securities and Exchange Commission on July 29, 2026. Collectively, the Reporting Persons beneficially own an aggregate of 6,800,099 shares of Common Stock, which represents 3.6% of the Issuer's outstanding Common Stock. The Fund XI Reporting Persons, Opportunity Fund Reporting Persons and Opportunity Fund II Reporting Persons are under common control and as a result, the Reporting Persons may be deemed to be members of a group. However, the Reporting Persons disclaim such group membership, and this Schedule 13G shall not be deemed an admission that the Reporting Persons are members of a group for purposes of Section 13 or for any other purposes. %

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

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

None of the Reporting Persons have the sole power to direct the vote of the Common Stock.

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

Atlas XI shares power to vote or direct the vote of 4,476,487 shares of Common Stock. Each of AVA XI LP and AVA XI LLC shares power to vote or direct the vote of 4,479,449 shares of Common Stock. Each Opportunity Fund Reporting Person shares power to vote or direct the vote of 975,931 shares of Common Stock. Each Opportunity Fund II Reporting Person shares power to vote or direct the vote of 1,344,719 shares of Common Stock.

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

None of the Reporting Persons have the sole power to dispose or to direct the disposition of the Common Stock.

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

Atlas XI shares power to dispose or to direct the disposition of 4,476,487 shares of Common Stock. Each of AVA XI LP and AVA XI LLC shares power to dispose or to direct the disposition of 4,479,449 shares of Common Stock. Each Opportunity Fund Reporting Person shares power to dispose or to direct the disposition of 975,931 shares of Common Stock. Each Opportunity Fund II Reporting Person shares power to dispose or to direct the disposition of 1,344,719 shares of Common Stock.

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:

Not Applicable

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.

Atlas Venture Fund XI, L.P.

Signature: /s/ Ommer Chohan

Name/Title: By: Atlas Venture Associates XI, L.P., its general partner, By: Atlas Venture Associates XI, LLC, its general partner, By: Ommer Chohan, its CFO

Date: 08/13/2026

Atlas Venture Associates XI, L.P.

Signature: /s/ Ommer Chohan

Name/Title: By: Atlas Venture Associates XI, LLC, its general partner, By: Ommer Chohan, its CFO

Date: 08/13/2026

Atlas Venture Associates XI, LLC

Signature: /s/ Ommer Chohan

Name/Title: Ommer Chohan, its CFO

Date: 08/13/2026

Atlas Venture Opportunity Fund I, L.P.

Signature: /s/ Ommer Chohan

Name/Title: By: Atlas Venture Associates Opportunity I L.P., its GP, By: Atlas Venture Associates Opportunity I LLC, its GP, By: Ommer Chohan, its CFO

Date: 08/13/2026

Atlas Venture Associates Opportunity I, L.P.

Signature: /s/ Ommer Chohan

Name/Title: By: Atlas Venture Associates Opportunity I LLC, its GP, By: Ommer Chohan, its CFO

Date: 08/13/2026

Atlas Venture Associates Opportunity I, LLC

Signature: /s/ Ommer Chohan

Name/Title: Ommer Chohan, its CFO

Date: 08/13/2026

Atlas Venture Opportunity Fund II, L.P.

Signature: /s/ Ommer Chohan

Name/Title: By: Atlas Venture Associates Opportunity II L.P., its GP, By: Atlas Venture Associates Opportunity II LLC, its GP, By: Ommer Chohan, its CFO

Date: 08/13/2026

Atlas Venture Associates Opportunity II, L.P.

Signature: /s/ Ommer Chohan

Name/Title: By: Atlas Venture Associates Opportunity II LLC, its GP, By: Ommer Chohan, its CFO

Date: 08/13/2026

Atlas Venture Associates Opportunity II, LLC

Signature: /s/ Ommer Chohan

Name/Title: Ommer Chohan, its CFO

Date: 08/13/2026

Exhibit Information

99.1 Joint Filing Agreement (incorporated by reference to Exhibit 99.1 to the Reporting Persons' Schedule 13G, filed with the SEC on November 13, 2025)