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SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934  
(Amendment No. 2)\*

**Spruce Biosciences, Inc.**

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(Name of Issuer)

**Common Stock, par value \$0.0001 per share (the "Shares")**

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(Title of Class of Securities)

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(CUSIP Number)

**03/31/2026**

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(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)

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SCHEDULE 13G

CUSIP No.

Names of Reporting Persons

1

Citadel Advisors 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

Number of Shares Beneficially Owned by Each Reporting Person With: 5 Sole Voting Power  
 0.00  
 Shared Voting Power  
 6  
 69,999.00  
 Sole Dispositive Power  
 7  
 0.00  
 Shared Dispositive Power  
 8  
 69,999.00

9 Aggregate Amount Beneficially Owned by Each Reporting Person

69,999.00

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 5.1 %

12 Type of Reporting Person (See Instructions)

IA, HC, OO

**Comment for Type of Reporting Person:** The percentages reported in this Schedule 13G are based upon 1,372,278 Shares outstanding as of March 24, 2026 (according to the issuer's definitive proxy statement as filed with the Securities and Exchange Commission on April 9, 2026).

SCHEDULE 13G

CUSIP No.

1 Names of Reporting Persons

Citadel Advisors 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 0.00

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

69,999.00

Sole Dispositive Power

7 0.00

8 Shared Dispositive Power

69,999.00

9 Aggregate Amount Beneficially Owned by Each Reporting Person

69,999.00

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

5.1 %

Type of Reporting Person (See Instructions)

12

HC, PN

### SCHEDULE 13G

#### CUSIP No.

Names of Reporting Persons

1

Citadel GP 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

69,999.00

Sole Dispositive Power

7

0.00

Shared Dispositive

8

Power

69,999.00

Aggregate Amount Beneficially Owned by Each Reporting Person

9

69,999.00

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

5.1 %

Type of Reporting Person (See Instructions)

12

HC, OO

### SCHEDULE 13G

#### CUSIP No.

1

Names of Reporting Persons

Citadel Securities 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

Number of  
Shares

Shared Voting Power

Beneficially  
Owned by

6

66.00

Each

Sole Dispositive Power

Reporting

7

0.00

Person

Shared Dispositive

With:

8

Power

66.00

Aggregate Amount Beneficially Owned by Each Reporting Person

9

66.00

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

0.0 %

Type of Reporting Person (See Instructions)

12

BD, OO

## SCHEDULE 13G

### CUSIP No.

Names of Reporting Persons

1

Citadel Securities Group 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

DELAWARE

Number of  
Shares

5

Sole Voting Power

Beneficially  
Owned by

0.00

Shared Voting Power

Each

6

66.00

Reporting

Person

7

Sole Dispositive Power

With:

0.00  
Shared Dispositive  
Power

66.00

Aggregate Amount Beneficially Owned by Each Reporting Person

66.00

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

Percent of class represented by amount in row (9)

0.0 %

Type of Reporting Person (See Instructions)

HC, PN

## SCHEDULE 13G

### CUSIP No.

Names of Reporting Persons

Citadel Securities GP LLC

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

(a)  
 (b)

Sec Use Only

Citizenship or Place of Organization

DELAWARE

Sole Voting Power

5

0.00

Shared Voting Power

6

66.00

Sole Dispositive Power

7

0.00

Shared Dispositive

8

66.00

Aggregate Amount Beneficially Owned by Each Reporting Person

66.00

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

Percent of class represented by amount in row (9)

0.0 %

Type of Reporting Person (See Instructions)

HC, OO

Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person  
With:

# SCHEDULE 13G

## CUSIP No.

Names of Reporting Persons

1

Kenneth Griffin

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 STATES

Sole Voting Power

5

0.00

Number of  
Shares

Shared Voting Power

6

Beneficially  
Owned by

70,065.00

Each

Sole Dispositive Power

7

Reporting

0.00

Person

With:

Shared Dispositive

8

Power

70,065.00

Aggregate Amount Beneficially Owned by Each Reporting Person

9

70,065.00

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

5.1 %

Type of Reporting Person (See Instructions)

12

HC, IN

# SCHEDULE 13G

Item 1.

Name of issuer:

(a)

Spruce Biosciences, Inc.

Address of issuer's principal executive offices:

(b)

611 Gateway Boulevard, Suite 740, South San Francisco, CA 94080

Item 2.

(a)

Name of person filing:

This Schedule 13G is being jointly filed by Citadel Advisors LLC ("Citadel Advisors"), Citadel Advisors Holdings LP ("CAH"), Citadel GP LLC ("CGP"), Citadel Securities LLC ("Citadel Securities"), Citadel Securities Group LP ("CALC4"), Citadel Securities GP LLC ("CSGP") and Mr. Kenneth Griffin (collectively with Citadel Advisors, CAH, CGP, Citadel Securities, CALC4 and CSGP, the "Reporting Persons") with respect to the Shares of the above-named issuer owned by Citadel CEMF Investments Ltd., a Cayman Islands limited company ("CCIL"), and Citadel Securities. Such owned Shares may include other instruments exercisable for or convertible into Shares. Citadel Advisors is the portfolio manager for CCIL. CAH is the sole member of Citadel Advisors. CGP is the general partner

of CAH. CALC4 is the non-member manager of Citadel Securities. CSGP is the general partner of CALC4. Mr. Griffin is the President and Chief Executive Officer of CGP, and owns a controlling interest in CGP and CSGP. The filing of this statement shall not be construed as an admission that any of the Reporting Persons is the beneficial owner of any securities covered by the statement other than the securities actually owned by such person (if any).

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

(b)

The address of each of the Reporting Persons is 830 Brickell Plaza, Miami, Florida 33131.

Citizenship:

(c)

Each of Citadel Advisors, CGP, Citadel Securities and CSGP is organized as a limited liability company under the laws of the State of Delaware. Each of CALC4 and CAH is organized as a limited partnership under the laws of the State of Delaware. Mr. Griffin is a U.S. citizen.

Title of class of securities:

(d)

Common Stock, par value \$0.0001 per share (the "Shares")

(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:

(a)

1. Each of Citadel Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC may be deemed to beneficially own 69,999 Shares. 2. Citadel Securities LLC may be deemed to beneficially own 66 Shares. 3. Each of Citadel Securities Group LP and Citadel Securities GP LLC may be deemed to beneficially own 66 Shares. 4. Mr. Griffin may be deemed to beneficially own 70,065 Shares.

Percent of class:

(b)

1. The number of Shares that each of Citadel Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC may be deemed to beneficially own constitutes 5.1% of the Shares outstanding. 2. The number of Shares that Citadel Securities LLC may be deemed to beneficially own constitutes 0.0% of the Shares outstanding. 3. The number of Shares that each of Citadel Securities Group LP and Citadel Securities GP LLC may be deemed to beneficially own constitutes 0.0% of the Shares outstanding. 4. The number of Shares that Mr. Griffin may be deemed to beneficially own constitutes 5.1% of the Shares outstanding. %

(c)

Number of shares as to which the person has:

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

1. Each of Citadel Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC: 0 2. Citadel Securities LLC: 0 3. Each of Citadel Securities Group LP and Citadel Securities GP LLC: 0 4. Mr. Griffin: 0

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

1. Each of Citadel Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC: 69,999 2. Citadel Securities LLC: 66 3. Each of Citadel Securities Group LP and Citadel Securities GP LLC: 66 4. Mr. Griffin: 70,065

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

1. Each of Citadel Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC: 0 2. Citadel Securities LLC: 0  
3. Each of Citadel Securities Group LP and Citadel Securities GP LLC: 0 4. Mr. Griffin: 0

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

1. Each of Citadel Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC: 69,999 2. Citadel Securities LLC: 66 3. Each of Citadel Securities Group LP and Citadel Securities GP LLC: 66 4. Mr. Griffin: 70,065

Item 5. 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.

Citadel Advisors LLC

Signature: /s/ Seth Levy

Name/Title: Seth Levy, Authorized Signatory

Date: 05/15/2026

Citadel Advisors Holdings LP

Signature: /s/ Seth Levy

Name/Title: Seth Levy, Authorized Signatory

Date: 05/15/2026

Citadel GP LLC

Signature: /s/ Seth Levy

Name/Title: Seth Levy, Authorized Signatory

Date: 05/15/2026

Citadel Securities LLC

Signature: /s/ Seth Levy

Name/Title: Seth Levy, Authorized Signatory

Date: 05/15/2026

Citadel Securities Group LP

Signature: /s/ Seth Levy

Name/Title: Seth Levy, Authorized Signatory

Date: 05/15/2026

Citadel Securities GP LLC

Signature: /s/ Seth Levy

Name/Title: Seth Levy, Authorized Signatory

Date: 05/15/2026

Kenneth Griffin

Signature: /s/ Seth Levy

Name/Title: Seth Levy, attorney-in-fact\*

Date: 05/15/2026

**Comments accompanying signature:** \* Seth Levy is signing on behalf of Kenneth Griffin as attorney-in-fact pursuant to a power of attorney previously filed with the Securities and Exchange Commission, and hereby incorporated by reference herein. The power of attorney was filed as an attachment to a filing by Citadel Advisors LLC on Schedule 13G for Allakos Inc. on October 13, 2023.