UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 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

(Amendment No. 4)*

Spruce Biosciences, Inc.
(Name of Issuer)
Common Stock, \$0.0001 par value per share (the "Shares")
(Title of Class of Securities)
85209E109
(CUSIP Number)
December 31, 2023
(Date of Event Which Requires Filing of the 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) * 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 ("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).

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1.	NAME OF REPORTING PERSONS			
	Citadel Adviso	ors LLC		
2.	CHECK THE A	APPROPRI <i>A</i>	ATE BOX IF A MEMBER OF A GROUP	(a)
3.	SEC USE ONL	Y		
4.	CITIZENSHIP	OR PLACE	OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
NH D G	NED OF		0	
SHA	BER OF ARES	6.	SHARED VOTING POWER	
	ICIALLY ED BY		60,511 Shares	
	CH RTING	7.	SOLE DISPOSITIVE POWER	
PER	SON ITH		0	
***		8.	SHARED DISPOSITIVE POWER	
			See Row 6 above	
9.	AGGREGATE	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	See Row 6 abo	ve		
10.	CHECK IF TH	E AGGREG	GATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11.	PERCENT OF	CLASS RE	PRESENTED BY AMOUNT IN ROW (9)	
	0.2%1			
12.	TYPE OF REP	ORTING PE	ERSON	
	14 · 00 · HC			

The percentages reported in this Schedule 13G are based upon 40,710,692 Shares outstanding as of November 9, 2023 (according to the issuer's Form 10-Q as filed with the Securities and Exchange Commission on November 13, 2023).

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1.	NAME OF REI	PORTING P	PERSONS		
	Citadel Adviso	ors Holding	s LP		
2.	CHECK THE A	APPROPRIA	ATE BOX IF A MEMBER OF A GROUP	(a)	
3.	SEC USE ONL	Y			
4.	CITIZENSHIP	OR PLACE	E OF ORGANIZATION		
	Delaware				
		5.	SOLE VOTING POWER		
	MBER OF	6.	SHARED VOTING POWER		
BENE	IARES FICIALLY NED BY	6.	60,511 Shares		
REP	EACH ORTING ERSON	7.	SOLE DISPOSITIVE POWER		
	WITH	8.	0 SHARED DISPOSITIVE POWER		
		0.	See Row 6 above		
9.	AGGREGATE	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	See Row 6 abo	ve			
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11.	11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		PRESENTED BY AMOUNT IN ROW (9)		
	0.2%	0.2%			
12.	TYPE OF REP	ORTING PI	ERSON		
	PN; HC				
i	1				

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1. NAME OF		PORTING F	PERSONS	
	Citadel GP LI	.C		
2.	CHECK THE A	APPROPRIA	ATE BOX IF A MEMBER OF A GROUP	(a)
3.	SEC USE ONL	Y		
4.	CITIZENSHIP OR PLACE OF ORGANIZATION			
	Delaware			
	•	5.	SOLE VOTING POWER	
) II D	men or		0	
SH	IBER OF IARES FICIALLY	6.	SHARED VOTING POWER	
	NED BY ACH	7	60,511 Shares	
REP PE	ORTING RSON	7.	SOLE DISPOSITIVE POWER 0	
V	VITH -	8.	SHARED DISPOSITIVE POWER	
			See Row 6 above	
9.	AGGREGATE	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	See Row 6 abo	ve		
10.	CHECK IF TH	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11.	PERCENT OF	CLASS RE	PRESENTED BY AMOUNT IN ROW (9)	
	0.2%			
12.	TYPE OF REP	ORTING PI	ERSON	
	оо; нс			

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1. NAME OF I		PORTING I	PERSONS	
	Citadel Securi	ities LLC		
2.	CHECK THE A	APPROPRIA	ATE BOX IF A MEMBER OF A GROUP	(a)
3.	SEC USE ONI	У		
4.	CITIZENSHIP	OR PLACE	E OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
	(DED OF		0	
SF	MBER OF HARES	6.	SHARED VOTING POWER	
	FICIALLY NED BY		47,729 Shares	
	EACH ORTING	7.	SOLE DISPOSITIVE POWER	
PE	ERSON WITH		0	
,	WIIII	8.	SHARED DISPOSITIVE POWER	
			See Row 6 above	
9.	AGGREGATE	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	See Row 6 abo	ove		
10.	CHECK IF TH	E AGGREC	GATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11.	PERCENT OF	CLASS RE	EPRESENTED BY AMOUNT IN ROW (9)	
	0.1%			
12.	TYPE OF REP	ORTING P	ERSON	
	BD; OO			

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1. NAME OF F		PORTING I	PERSONS	
	Citadel Securi	ities Group	LP	
2.	CHECK THE	APPROPRIA	ATE BOX IF A MEMBER OF A GROUP	(a)
3.	SEC USE ONI	CY		
4.	CITIZENSHIP	OR PLACE	E OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
NHM	BER OF		0	
SH BENEF	ARES FICIALLY	6.	SHARED VOTING POWER 47,729 Shares	
	IED BY ACH	7.	SOLE DISPOSITIVE POWER	
PEI	ORTING RSON	7.	0	
W	/ITH	8.	SHARED DISPOSITIVE POWER	
			See Row 6 above	
9.	AGGREGATE	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	See Row 6 abo	ove		
10.	CHECK IF TH	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11.	PERCENT OF	CLASS RE	PRESENTED BY AMOUNT IN ROW (9)	
	0.1%			
12.	TYPE OF REF	PORTING PI	ERSON	
	PN; HC			

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1.	NAME OF REPORTING PERSONS					
	Citadel Securi	Citadel Securities GP LLC				
2.	2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		(a)			
3.	SEC USE ONL	Y				
4.	CITIZENSHIP OR PLACE OF ORGANIZATION					
	Delaware					
		5.	SOLE VOTING POWER			
NILIN	MDED OF		0			
SH BENE	MBER OF HARES FICIALLY	6.	SHARED VOTING POWER 47,729 Shares			
E	NED BY EACH	7.	SOLE DISPOSITIVE POWER			
PE	ORTING ERSON		0			
V	VITH -	8.	SHARED DISPOSITIVE POWER			
			See Row 6 above			
9.	AGGREGATE	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	See Row 6 above					
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	0.1%					
12.	TYPE OF REPORTING PERSON					
	оо; нс					

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1.	NAME OF REPORTING PERSONS Kenneth Griffin				
2.	2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP			(a)	
3.	SEC USE ONLY				
4.	CITIZENSHIP	CITIZENSHIP OR PLACE OF ORGANIZATION			
	U.S. Citizen				
		5.	SOLE VOTING POWER		
NII IN	IBER OF		0		
SH	IARES	6.	SHARED VOTING POWER		
OWI	FICIALLY NED BY		108,240 Shares		
REP	ACH ORTING	7.	SOLE DISPOSITIVE POWER		
	RSON VITH		0		
		8.	SHARED DISPOSITIVE POWER		
			See Row 6 above		
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	See Row 6 abo	See Row 6 above			
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	0.3%				
12.	TYPE OF REPORTING PERSON				
	IN; HC				

Item 1(a). Name of Issuer:

Spruce Biosciences, Inc.

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

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

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 Multi-Strategy Equities Master Fund Ltd., a Cayman Islands company ("CM"), and Citadel Securities. Such owned Shares may include other instruments exercisable for or convertible into Shares.

Citadel Advisors is the portfolio manager for CM. 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).

Item 2(b). Address or Principal Business Office or, if none, Residence:

The address of each of the Reporting Persons is Southeast Financial Center, 200 S. Biscayne Blvd., Suite 3300, Miami, Florida 33131.

Item 2(c). Citizenship:

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.

Item 2(d). Title of Class of Securities:

Common Stock, \$0.0001 par value per share

Item 2(e). CUSIP Number:

85209E109

tem 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. 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).			
tem 4.		ng as a no	on-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:			
теш т.	Owne	ership:				
aciii 4.	A.	-	el Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC			
icin ii		-	el Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC Each of Citadel Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC may be deemed to beneficially own 60,511 Shares.			
		Citado	Each of Citadel Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC may be deemed to beneficially own			
		Citado (a)	Each of Citadel Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC may be deemed to beneficially own 60,511 Shares. The number of Shares that each of Citadel Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC may be			

shared power to vote or to direct the vote: 60,511

sole power to dispose or to direct the disposition of: $\,0\,$

shared power to dispose or to direct the disposition of: 60,511

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(ii)

(iii)

(iv)

- B. Citadel Securities LLC
 - (a) Citadel Securities LLC may be deemed to beneficially own 47,729 Shares.
 - (b) The number of Shares that Citadel Securities LLC may be deemed to beneficially own constitutes 0.1% of the Shares outstanding.
 - (c) Number of shares of Shares as to which such person has:
 - (i) sole power to vote or to direct the vote: 0
 - (ii) shared power to vote or to direct the vote: 47,729
 - (iii) sole power to dispose or to direct the disposition of: 0
 - (iv) shared power to dispose or to direct the disposition of: 47,729
- C. Citadel Securities Group LP and Citadel Securities GP LLC
 - (a) Each of Citadel Securities Group LP and Citadel Securities GP LLC may be deemed to beneficially own 47,729 Shares.
 - (b) The number of Shares that each of Citadel Securities Group LP and Citadel Securities GP LLC may be deemed to beneficially own constitutes 0.1% of the Shares outstanding.
 - (c) Number of Shares as to which such person has:
 - (i) sole power to vote or to direct the vote: 0
 - (ii) shared power to vote or to direct the vote: 47,729
 - (iii) sole power to dispose or to direct the disposition of: 0
 - (iv) shared power to dispose or to direct the disposition of: 47,729

D. Kenneth Griffin

- (a) Mr. Griffin may be deemed to beneficially own 108,240 Shares.
- (b) The number of Shares that Mr. Griffin may be deemed to beneficially own constitutes 0.3% of the Shares outstanding.
- (c) Number of Shares as to which such person has:
 - (i) sole power to vote or to direct the vote: 0
 - (ii) shared power to vote or to direct the vote: 108,240
 - (iii) sole power to dispose or to direct the disposition of: 0
 - (iv) shared power to dispose or to direct the disposition of: 108,240

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

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following.

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:

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.

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SIGNATURE

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

Dated February 14, 2024.

CITA	DEL SECURITIES LLC	CITA	DEL ADVISORS LLC	
By:	/s/ Guy Miller Guy Miller, Authorized Signatory	By:	/s/ Seth Levy Seth Levy, Authorized Signatory	
CITA	DEL SECURITIES GROUP LP	CITA	DEL ADVISORS HOLDINGS LP	
By:	/s/ Guy Miller Guy Miller, Authorized Signatory	Ву:	/s/ Seth Levy Seth Levy, Authorized Signatory	
CITA	DEL SECURITIES GP LLC	CITADEL GP LLC		
By:	/s/ Guy Miller Guy Miller, Authorized Signatory	By:	/s/ Seth Levy Seth Levy, Authorized Signatory	
		KENI	NETH GRIFFIN	
		By:	/s/ Seth Levy Seth Levy, attorney-in-fact*	

^{*} 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.