

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

Schedule 13G
(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1 (b), (c) AND (d) AND AMENDMENTS THERETO
FILED PURSUANT TO 13d-2 (b)
(Amendment No. _____)*

LifeSci Acquisition II Corp.

(Name of Issuer)

Common Stock, par value \$0.0001

(Title of Class of Securities)

53229E103

(CUSIP Number)

November 20, 2020

(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)

*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 disclosures provided in a prior cover page.

The information required on 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).

(Continued on following pages)

1	NAME OF REPORTING PERSONS		Foresite Capital Fund V, L.P. ("FCF V")
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		(a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 400,000 shares, except that Foresite Capital Management V, LLC ("FCM V"), the general partner of FCF V, may be deemed to have sole power to vote these shares, and James Tananbaum ("Tananbaum"), the managing member of FCM V, may be deemed to have sole power to vote these shares.	
	6	SHARED VOTING POWER See response to row 5.	
	7	SOLE DISPOSITIVE POWER 400,000 shares, except that FCM V, the general partner of FCF V, may be deemed to have sole power to dispose of these shares, and Tananbaum, the managing member of FCM V, may be deemed to have sole power to dispose of these shares.	
	8	SHARED DISPOSITIVE POWER See response to row 7.	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		400,000
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		<input type="checkbox"/>
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		5.3%
12	TYPE OF REPORTING PERSON		PN

1	NAME OF REPORTING PERSONS		Foresite Capital Management V, LLC ("FCM V")
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		(a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER	400,000 shares, all of which are directly owned by FCF V. FCM V, the general partner of FCF V, may be deemed to have sole power to vote these shares, and Tananbaum, the managing member of FCM V, may be deemed to have sole power to vote these shares.
	6	SHARED VOTING POWER	See response to row 5.
	7	SOLE DISPOSITIVE POWER	400,000 shares, all of which are directly owned by FCF V. FCM V, the general partner of FCF V, may be deemed to have sole power to dispose of these shares, and Tananbaum, the managing member of FCM V, may be deemed to have sole power to dispose of these shares.
	8	SHARED DISPOSITIVE POWER	See response to row 7.
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		400,000
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		<input type="checkbox"/>
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		5.3%
12	TYPE OF REPORTING PERSON		OO

1	NAME OF REPORTING PERSONS		Foresite Capital Opportunity Fund V, L.P. ("FCF Opp V")
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		(a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 100,000 shares, except that Foresite Capital Opportunity Management V, LLC ("FCM Opp V"), the general partner of FCF Opp V, may be deemed to have sole power to vote these shares, and James Tananbaum ("Tananbaum"), the managing member of FCM Opp V, may be deemed to have sole power to vote these shares.	
	6	SHARED VOTING POWER See response to row 5.	
	7	SOLE DISPOSITIVE POWER 100,000 shares, except that FCM Opp V, the general partner of FCF Opp V, may be deemed to have sole power to dispose of these shares, and Tananbaum, the managing member of FCM Opp V, may be deemed to have sole power to dispose of these shares.	
	8	SHARED DISPOSITIVE POWER See response to row 7.	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		100,000
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		<input type="checkbox"/>
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		1.3%
12	TYPE OF REPORTING PERSON		PN

1	NAME OF REPORTING PERSONS		Foresite Capital Opportunity Management V, LLC ("FCM Opp V")
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		(a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER	100,000 shares, all of which are directly owned by FCF Opp V. FCM Opp V, the general partner of FCF Opp V, may be deemed to have sole power to vote these shares, and Tananbaum, the managing member of FCM Opp V, may be deemed to have sole power to vote these shares.
	6	SHARED VOTING POWER	See response to row 5.
	7	SOLE DISPOSITIVE POWER	100,000 shares, all of which are directly owned by FCF Opp V. FCM Opp V, the general partner of FCF Opp V, may be deemed to have sole power to dispose of these shares, and Tananbaum, the managing member of FCM Opp V, may be deemed to have sole power to dispose of these shares.
	8	SHARED DISPOSITIVE POWER	See response to row 7.
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		100,000
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		<input type="checkbox"/>
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		1.3%
12	TYPE OF REPORTING PERSON		OO

1	NAME OF REPORTING PERSONS		James Tananbaum ("Tananbaum")
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		(a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 500,000 shares, of which 400,000 shares are directly owned by Foresite Capital Fund V, L.P. ("FCF V") and 100,000 shares are directly owned by Foresite Capital Opportunity Fund V, L.P. ("FCF Opp V"). Tananbaum is the managing member of each of Foresite Capital Management V, LLC ("FCM V"), which is the general partner of FCF V, and Foresite Capital Opportunity Management V, LLC ("FCM Opp V"), which is the general partner of FCF Opp V. Tananbaum may be deemed to have sole power to vote these shares.	
	6	SHARED VOTING POWER See response to row 5.	
	7	SOLE DISPOSITIVE POWER 500,000 shares, of which 400,000 shares are directly owned by FCF V and 100,000 shares are directly owned by FCF Opp V. Tananbaum is the managing member of each of FCM V, which is the general partner of FCF V, and FCM Opp V, which is the general partner of FCF Opp V. Tananbaum may be deemed to have sole power to dispose of these shares.	
	8	SHARED DISPOSITIVE POWER See response to row 7.	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		500,000
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		<input type="checkbox"/>
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		6.7%
12	TYPE OF REPORTING PERSON		IN

ITEM 1(A). NAME OF ISSUER

LifeSci Acquisition II Corp. (the "Issuer")

ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES

250 W. 55th St., #3401
New York, New York 10019

ITEM 2(A). NAME OF PERSONS FILING

This Schedule is filed by Foresite Capital Fund V, L.P., a Delaware limited partnership ("FCF V"), Foresite Capital Management V, LLC, a Delaware limited liability company ("FCM V"), Foresite Capital Opportunity Fund V, L.P., a Delaware limited partnership ("FCF Opp V"), Foresite Capital Opportunity Management V, LLC, a Delaware limited liability company ("FCM Opp V"), and James Tananbaum. The foregoing entities and individuals are collectively referred to as the "Reporting Persons."

ITEM 2(B). ADDRESS OF PRINCIPAL OFFICE

The address for each of the Reporting Persons is:

c/o Foresite Capital Management
600 Montgomery Street, Suite 4500
San Francisco, CA 94111

ITEM 2(C). CITIZENSHIP

See Row 4 of cover page for each Reporting Person.

ITEM 2(D). TITLE OF CLASS OF SECURITIES

Common Stock, par value \$0.0001

ITEM 2(D). CUSIP NUMBER

53229E103

ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULE 13D-1(B), OR 13D-2(B) OR (C), CHECK WHETHER THE PERSON FILING IS A:

Not applicable.

ITEM 4. OWNERSHIP

The following information with respect to the ownership of the Common Stock of the Issuer by the persons filing this Statement is provided as of November 20, 2020:

- (a) Amount beneficially owned:
See Row 9 of cover page for each Reporting Person.
- (b) Percent of Class:
See Row 11 of cover page for each Reporting Person.
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote:
See Row 5 of cover page for each Reporting Person.
 - (ii) Shared power to vote or to direct the vote:
See Row 6 of cover page for each Reporting Person.
 - (iii) Sole power to dispose or to direct the disposition of:
See Row 7 of cover page for each Reporting Person.
 - (iv) Shared power to dispose or to direct the disposition of:
See Row 8 of cover page for each Reporting Person.

ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS

Not applicable.

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON.

Under certain circumstances set forth in the limited partnership agreements of FCF V and FCF Opp V and the limited liability company agreements of FCM V and FCM Opp V, the partners or members, as the case may be, of each of such entities may be deemed to have the right to receive dividends from, or the proceeds from the sale of, shares of the Issuer directly or indirectly owned by each such entity of which they are a partner or member.

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. CERTIFICATION.

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.

SIGNATURES

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.

Date: November 25, 2020

FORESITE CAPITAL FUND V, L.P.

By: FORESITE CAPITAL MANAGEMENT V, LLC
Its: General Partner

By: /s/ James Tananbaum
Name: James Tananbaum
Title: Managing Member

FORESITE CAPITAL MANAGEMENT V, LLC

By: /s/ James Tananbaum
Name: James Tananbaum
Title: Managing Member

FORESITE CAPITAL OPPORTUNITY FUND V, L.P.

By: FORESITE CAPITAL OPPORTUNITY MANAGEMENT V, LLC
Its: General Partner

By: /s/ James Tananbaum
Name: James Tananbaum
Title: Managing Member

FORESITE CAPITAL OPPORTUNITY MANAGEMENT V, LLC

By: /s/ James Tananbaum
Name: James Tananbaum
Title: Managing Member

JAMES TANANBAUM

By: /s/ James Tananbaum
Name: James Tananbaum

EXHIBIT INDEX

Exhibit

Found on
Sequentially
Numbered Page

[Exhibit A: Agreement of Joint Filing](#)

[12](#)

EXHIBIT A

Agreement of Joint Filing

The undersigned hereby agree that a single Schedule 13G (or any amendment thereto) relating to the Common Stock of the Issuer shall be filed on behalf of each of the undersigned and that this Agreement shall be filed as an exhibit to such Schedule 13G.

Date: November 25, 2020

FORESITE CAPITAL FUND V, L.P.

By: FORESITE CAPITAL MANAGEMENT V, LLC
Its: General Partner

By: /s/ James Tananbaum

Name: James Tananbaum

Title: Managing Member

FORESITE CAPITAL MANAGEMENT V, LLC

By: /s/ James Tananbaum

Name: James Tananbaum

Title: Managing Member

FORESITE CAPITAL OPPORTUNITY FUND V, L.P.

By: FORESITE CAPITAL OPPORTUNITY MANAGEMENT V, LLC
Its: General Partner

By: /s/ James Tananbaum

Name: James Tananbaum

Title: Managing Member

FORESITE CAPITAL OPPORTUNITY MANAGEMENT V, LLC

By: /s/ James Tananbaum

Name: James Tananbaum

Title: Managing Member

JAMES TANANBAUM

By: /s/ James Tananbaum

Name: James Tananbaum
