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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**SCHEDULE 13G**

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

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**Fulcrum Therapeutics, Inc.**  
(Name of Issuer)

**COMMON STOCK, \$0.001 PAR VALUE PER SHARE**  
(Title of Class of Securities)

**359616109**  
(CUSIP Number)

**December 31, 2022**  
(Date of Event Which Requires Filing of this Statement)

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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.	NAMES OF REPORTING PERSONS Third Rock Ventures III, L.P.	
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 0
	6.	SHARED VOTING POWER 1,962,202
	7.	SOLE DISPOSITIVE POWER 0
	8.	SHARED DISPOSITIVE POWER 1,962,202
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,962,202	
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 3.8% (1)	
12.	TYPE OF REPORTING PERSON PN	

- (1) The percent of class was calculated based on 52,051,405 shares of common stock issued and outstanding as of November 1, 2022 as disclosed in the Issuer's 10-Q filed with the Securities and Exchange Commission on November 8, 2022.

1.	NAMES OF REPORTING PERSONS	
	Third Rock Ventures GP III, L.P.	
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
		0
	6.	SHARED VOTING POWER
		1,962,202
	7.	SOLE DISPOSITIVE POWER
		0
	8.	SHARED DISPOSITIVE POWER
		1,962,202
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,962,202	
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	
	3.8% (1)	
12.	TYPE OF REPORTING PERSON	
	PN	

1.	NAMES OF REPORTING PERSONS	
	TRV GP III, LLC	
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
		0
	6.	SHARED VOTING POWER
		1,962,202
	7.	SOLE DISPOSITIVE POWER
		0
	8.	SHARED DISPOSITIVE POWER
		1,962,202
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,962,202	
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	
	3.8% (1)	
12.	TYPE OF REPORTING PERSON	
	OO	

1.	NAMES OF REPORTING PERSONS Third Rock Ventures IV, L.P.	
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 0
	6.	SHARED VOTING POWER 2,343,154
	7.	SOLE DISPOSITIVE POWER 0
	8.	SHARED DISPOSITIVE POWER 2,343,154
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,343,154	
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 4.5% (1)	
12.	TYPE OF REPORTING PERSON PN	

1.	NAMES OF REPORTING PERSONS	
	Third Rock Ventures GP IV, L.P.	
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
		0
	6.	SHARED VOTING POWER
		2,343,154
	7.	SOLE DISPOSITIVE POWER
		0
	8.	SHARED DISPOSITIVE POWER
		2,343,154
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,343,154	
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	
	4.5% (1)	
12.	TYPE OF REPORTING PERSON	
	PN	

1.	NAMES OF REPORTING PERSONS	
	TRV GP IV, LLC	
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
		0
	6.	SHARED VOTING POWER
		2,343,154
	7.	SOLE DISPOSITIVE POWER
		0
	8.	SHARED DISPOSITIVE POWER
		2,343,154
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,343,154	
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	
	4.5% (1)	
12.	TYPE OF REPORTING PERSON	
	OO	

1.	NAMES OF REPORTING PERSONS	
	Robert I. Tepper	
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
		156,189
	6.	SHARED VOTING POWER
		1,962,202
	7.	SOLE DISPOSITIVE POWER
		156,189
	8.	SHARED DISPOSITIVE POWER
		1,962,202
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,118,391	
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	
	4.1%	
12.	TYPE OF REPORTING PERSON	
	IN	



**Item 1. Issuer**

- (a) Name of Issuer:  
Fulcrum Therapeutics, Inc. (the “**Issuer**”)
- (b) Address of Issuer’s Principal Executive Offices:  
26 Landsdowne Street  
Cambridge, MA 02139

**Item 2. Filing Person**

- (a)–(c) Name of Persons Filing; Address; Citizenship:
- (i) Third Rock Ventures III, L.P. (“**TRV III**”);
  - (ii) Third Rock Ventures GP III, L.P. (“**TRV GP III**”), which is the sole general partner of TRV III;
  - (iii) TRV GP III, LLC (“**TRV GP III LLC**”), which is the sole general partner of TRV GP III;
  - (iv) Third Rock Ventures IV, L.P. (“**TRV IV**”);
  - (v) Third Rock Ventures GP IV, L.P. (“**TRV GP IV**”), which is the sole general partner of TRV IV;
  - (vi) TRV GP IV, LLC (“**TRV GP IV LLC**”), which is the sole general partner of TRV GP IV; and
  - (vii) Robert I. Tepper (“**Tepper**,” and collectively with TRV III, TRV GP III, TRV GP III LLC, TRV IV, TRV GP IV and TRV GP IV LLC, the “**Reporting Persons**”), the managing member of TRV GP III LLC.
- The address of the principal business office of each of the Reporting Persons is Third Rock Ventures, LLC, 201 Brookline Ave, Suite 1401, Boston, MA 02215.
- Each of TRV III, TRV GP III, TRV IV and TRV GP IV is a Delaware limited partnership. Each of TRV GP III LLC and TRV GP IV LLC is a Delaware limited liability company. Tepper is a United States citizen.
- (d) Title of Class of Securities:  
Common stock, \$0.001 par value per share, (the “**Common Stock**”)
- (e) CUSIP Number:  
359616109

**Item 3. If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:**

- (a)  Broker or dealer registered under Section 15 of the Act;
- (b)  Bank as defined in Section 3(a)(6) of the Act;
- (c)  Insurance company as defined in Section 3(a)(19) of the Act;
- (d)  Investment company registered under Section 8 of the Investment Company Act of 1940;

- (e)  An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with Rule 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;
- (j)  A non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J);
- (k)  Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J), please specify the type of institution:

If filing as a non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J), please specify the type of institution:

**Item 4. Ownership.**

(a) and Amount beneficially owned:

(b)

- (i) TRV III directly owns 1,962,202 shares of Common Stock (the “**III Shares**”), which represents approximately 3.8% of the outstanding shares of Common Stock.
- (ii) TRV GP III is the general partner of TRV III and may be deemed to beneficially own the III Shares.
- (iii) TRV GP III LLC is the general partner of TRV GP III and may be deemed to beneficially own the III Shares.
- (iv) TRV IV directly owns 2,343,154 shares of Common Stock (the “**Shares**”), which represents approximately 4.5% of the outstanding shares of Common Stock.
- (v) TRV GP IV is the general partner of TRV IV and may be deemed to beneficially own the Shares.
- (vi) TRV GP IV LLC is the general partner of TRV GP IV and may be deemed to beneficially own the Shares.
- (vii) As the managing member of TRV GP III LLC Tepper may be deemed to beneficially own the III Shares. Additionally, Tepper directly owns 156,189 shares of Common Stock.

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

Reporting Person	Number of Shares of Common Stock			
	(i)	(ii)	(iii)	(iv)
TRV III	0	1,962,202	0	1,962,202
TRV GP III	0	1,962,202	0	1,962,202
TRV GP III LLC	0	1,962,202	0	1,962,202
TRV IV	0	2,343,154	0	2,343,154
TRV GP IV	0	2,343,154	0	2,343,154
TRV GP IV LLC	0	2,343,154	0	2,343,154
Tepper	156,189	1,962,202	156,189	1,962,202

- (i) Sole power to vote or direct the vote
- (ii) Shared power to vote or to direct the vote
- (iii) Sole power to dispose or to direct the disposition of
- (iv) Shared power to dispose or to direct the disposition of

The percent of class was calculated based on 52,051,405 shares of common stock issued and outstanding as of November 1, 2022 as disclosed in the Issuer's 10-Q filed with the Securities and Exchange Commission on November 8, 2022.

**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.**

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. Certification.**

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.

Date: February 14, 2023

**THIRD ROCK VENTURES III, L.P.**

By: THIRD ROCK VENTURES GP III, L.P.,  
General Partner

By: TRV GP III, LLC,  
General Partner

By: /s/ Kevin Gillis  
\_\_\_\_\_  
Kevin Gillis  
Chief Operating Officer

**THIRD ROCK VENTURES GP III, L.P.**

By: TRV GP III, LLC,  
General Partner

By: /s/ Kevin Gillis  
\_\_\_\_\_  
Kevin Gillis  
Chief Operating Officer

**TRV GP III, LLC**

By: /s/ Kevin Gillis  
\_\_\_\_\_  
Kevin Gillis  
Chief Operating Officer

**THIRD ROCK VENTURES IV, L.P.**

By: THIRD ROCK VENTURES GP IV, L.P.,  
General Partner

By: TRV GP IV, LLC,  
General Partner

By: /s/ Kevin Gillis  
\_\_\_\_\_  
Kevin Gillis  
Chief Operating Officer

**THIRD ROCK VENTURES GP IV, L.P.**

By: TRV GP IV, LLC,  
General Partner

By: /s/ Kevin Gillis  
\_\_\_\_\_  
Kevin Gillis  
Chief Operating Officer

**TRV GP IV, LLC**

By: /s/ Kevin Gillis

Kevin Gillis

Chief Operating Officer

**ROBERT I. TEPPER**

/s/ Kevin Gillis, As attorney-in-fact

Robert I. Tepper