

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

Sotera Health Company

(Name of Issuer)

Common Stock, par value of \$0.01 per share

(Title of Class of Securities)

83601L102

(CUSIP Number)

09/04/2025

(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. 83601L102

	Names of Reporting Persons
1	Sculptor Capital 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	0.00
Owned by	Shared Voting Power
Each	6
Reporting	14,750,000.00
Person	Sole Dispositive Power
With:	7
	0.00
	Shared Dispositive
	8 Power
	14,750,000.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person
	14,750,000.00
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)
	5.19 %
12	Type of Reporting Person (See Instructions)
	IA

Comment for Type of Reporting Person: Sculptor Capital LP ("Sculptor"), a Delaware limited partnership, is the principal investment manager to a number of private funds and discretionary accounts (collectively, the "Accounts").

SCHEDULE 13G

CUSIP No. 83601L102

1	Names of Reporting Persons
	Sculptor Capital II 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	Shared Voting Power
Shares	6
Beneficially	14,750,000.00
Owned by	Sole Dispositive Power
Each	7
Reporting	0.00
Person	Shared Dispositive
With:	8 Power
	14,750,000.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person
	14,750,000.00
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		5.19 %
		Type of Reporting Person (See Instructions)
12		IA

Comment for Type of Reporting Person: Sculptor Capital II LP ("Sculptor-II"), a Delaware limited partnership that is wholly owned by Sculptor, also serves as the investment manager to certain of the Accounts. The Ordinary Shares reported in this Schedule 13G are held in the Account(s) managed by Sculptor and Sculptor-II.

SCHEDULE 13G

CUSIP No. 83601L102

		Names of Reporting Persons
1		Sculptor Capital Holding Corp
		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		14,750,000.00
		Sole Dispositive Power
7		0.00
		Shared Dispositive
8		Power
		14,750,000.00
9		Aggregate Amount Beneficially Owned by Each Reporting Person
		14,750,000.00
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		5.19 %
		Type of Reporting Person (See Instructions)
12		CO

Comment for Type of Reporting Person: Sculptor Capital Holding Corporation ("SCHC"), a Delaware corporation, serves as the general partner of Sculptor.

SCHEDULE 13G

1

Names of Reporting Persons

Sculptor Capital Holding 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

5

Sole Voting Power

6

0.00

7

Shared Voting Power

8

14,750,000.00

9

Sole Dispositive Power

10

0.00

11

Shared Dispositive Power

12

14,750,000.00

13

Aggregate Amount Beneficially Owned by Each Reporting Person

14

14,750,000.00

15

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

16

☐

17

Percent of class represented by amount in row (9)

18

5.19 %

19

Type of Reporting Person (See Instructions)

20

CO

Comment for Type of Reporting Person: Sculptor Capital Holding II LLC ("SCHC-II"), a Delaware limited liability company that is wholly owned by Sculptor, serves as the general partner of Sculptor-II.

SCHEDULE 13G

1

Names of Reporting Persons

Sculptor Capital Management, Inc.

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

5

Sole Voting Power

Beneficially	0.00
Owned by	Shared Voting Power
Each	6
Reporting	14,750,000.00
Person	Sole Dispositive Power
With:	7
	0.00
	Shared Dispositive
	8 Power
	14,750,000.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person
	14,750,000.00
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)
	5.19 %
12	Type of Reporting Person (See Instructions)
	CO

Comment for Type of Reporting Person: Sculptor Capital Management, Inc. ("SCU"), a Delaware limited liability company, is a holding company that is the sole shareholder of SCHC and the ultimate parent company of Sculptor and Sculptor-II.

SCHEDULE 13G

CUSIP No. 83601L102

1	Names of Reporting Persons
	Sculptor Master Fund, Ltd.
	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
	CAYMAN ISLANDS
	Sole Voting Power
5	0.00
Number of	Shared Voting Power
Shares	6
Beneficially	14,750,000.00
Owned by	Sole Dispositive Power
Each	7
Reporting	0.00
Person	Shared Dispositive
With:	8 Power
	14,750,000.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person
	14,750,000.00
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		5.19 %
		Type of Reporting Person (See Instructions)
12		CO

Comment for Type of Reporting Person: Sculptor Master Fund, Ltd. ("SCMF") is a Cayman Islands company. Sculptor is the investment adviser to SCMF.

SCHEDULE 13G

Item 1.

Name of issuer:

(a)

Sotera Health Company

Address of issuer's principal executive offices:

(b)

9100 South Hills Blvd, Suite 300 Broadview Heights, Ohio 44147

Item 2.

Name of person filing:

(a)

Sculptor Capital LP

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

(b)

9 West 57th Street, 40th Floor, New York, NY 10019

Citizenship:

(c)

Delaware

Title of class of securities:

(d)

Common Stock, par value of \$0.01 per share

CUSIP No.:

(e)

83601L102

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)

14,750,000

Percent of class:

(b)

5.19% %

- (c) Number of shares as to which the person has:
- (i) Sole power to vote or to direct the vote:
- 0
- (ii) Shared power to vote or to direct the vote:
- 14,750,000
- (iii) Sole power to dispose or to direct the disposition of:
- 0
- (iv) Shared power to dispose or to direct the disposition of:
- 14,750,000

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

Item 6. Ownership of more than 5 Percent on Behalf of Another Person.

If any other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities, a statement to that effect should be included in response to this item and, if such interest relates to more than 5 percent of the class, such person should be identified. A listing of the shareholders of an investment company registered under the Investment Company Act of 1940 or the beneficiaries of employee benefit plan, pension fund or endowment fund is not required.

Sculptor and Sculptor-II serve as the principal investment managers to the Accounts and thus may be deemed beneficial owners of the Units/Ordinary Shares in the Accounts managed by Sculptor and Sculptor-II. SCHC-II serves as the sole general partner of Sculptor-II and is wholly owned by Sculptor. SCHC serves as the sole general partner of Sculptor. As such, SCHC and SCHC-II may be deemed to control Sculptor as well as Sculptor-II and, therefore, may be deemed to be the beneficial owners of the Ordinary Shares reported in this Schedule 13G. SCU is the sole shareholder of SCHC, and, for purposes of this Schedule 13G, may be deemed a beneficial owner of the Ordinary Shares reported herein. In accordance with SEC Release No. 34-39538 (January 12, 1998) (the "Release"), this Schedule 13G reflects the securities beneficially owned, or deemed to be beneficially owned, by certain business units (collectively, the "Reporting Business Units") of Sculptor Capital LP and its subsidiaries and affiliates. It does not include securities, if any, beneficially owned by other business units whose beneficial ownership of securities are disaggregated from that of the Reporting Business Units in accordance with the Release. The percentages reported in this Schedule 13G have been calculated based on 284,046,606 Common Shares outstanding, as set forth in the Issuer's 424B7 filed September 4, 2025.

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.

If a group has filed this schedule pursuant to §240.13d-1(b)(1)(ii)(K), so indicate under Item 3(k) and attach an exhibit stating the identity and Item 3 classification of each member of the group. If a group has filed this schedule pursuant to §240.13d-1(c) or §240.13d-1(d), attach an exhibit stating the identity of each member of the group.

See Item 6

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.

Sculptor Capital LP

Signature: /s/ Wayne Cohen

Name/Title: Wayne Cohen / President and Chief Operating Officer

Date: 09/11/2025

Sculptor Capital II LP

Signature: /s/ Wayne Cohen

Name/Title: Wayne Cohen / President and Chief Operating Officer

Date: 09/11/2025

Sculptor Capital Holding Corp

Signature: /s/ Wayne Cohen

Name/Title: Wayne Cohen / President and Chief Operating Officer

Date: 09/11/2025

Sculptor Capital Holding II LLC

Signature: /s/ Wayne Cohen

Name/Title: Wayne Cohen / Chief Financial Officer

Date: 09/11/2025

Sculptor Capital Management, Inc.

Signature: /s/ Wayne Cohen

Name/Title: Wayne Cohen / President and Chief Operating Officer

Date: 09/11/2025

Sculptor Master Fund, Ltd.

Signature: /s/ Wayne Cohen

Name/Title: Wayne Cohen / President and Chief Operating Officer

Date: 09/11/2025