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# SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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## SCHEDULE 13D

Under the Securities Exchange Act of 1934  
(Amendment No. 8)\*

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### Soleno Therapeutics, Inc.

(Name of Issuer)

Common Stock, par value \$0.001 per share  
(Title of Class of Securities)

834203200  
(CUSIP Number)

Jeffrey Ferguson  
The Carlyle Group  
1001 Pennsylvania Avenue, NW  
Suite 220 South  
Washington, D.C. 20004  
(202) 729-5626

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

October 12, 2023  
(Date of Event Which Requires Filing of This Statement)

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If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), Rule 13d-1(f) or Rule 13d-1(g), check the following box.

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**Note:** Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7(b) for other parties to whom copies are to be sent.

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\* 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).

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1	Names of Reporting Persons	
	The Carlyle Group Inc.	
2	Check the Appropriate Box if a Member of a Group (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC Use Only	
4	Source of Funds (See Instructions)	
	OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e)	
	<input type="checkbox"/>	
6	Citizenship or Place of Organization	
	Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	Sole Voting Power
		0
	8	Shared Voting Power
		2,893,615
	9	Sole Dispositive Power
		0
	10	Shared Dispositive Power
		2,893,615
11	Aggregate Amount Beneficially Owned by Each Reporting Person	
	2,893,615	
12	Check if the Aggregate Amount in Row (11) Excludes Certain Shares	
	<input type="checkbox"/>	
13	Percent of Class Represented by Amount in Row (11)	
	9.99%	
14	Type of Reporting Person	
	CO	

1	Names of Reporting Persons Carlyle Holdings I GP Inc.	
2	Check the Appropriate Box if a Member of a Group (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC Use Only	
4	Source of Funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>	
6	Citizenship or Place of Organization Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	Sole Voting Power 0
	8	Shared Voting Power 2,893,615
	9	Sole Dispositive Power 0
	10	Shared Dispositive Power 2,893,615
11	Aggregate Amount Beneficially Owned by Each Reporting Person 2,893,615	
12	Check if the Aggregate Amount in Row (11) Excludes Certain Shares <input type="checkbox"/>	
13	Percent of Class Represented by Amount in Row (11) 9.99%	
14	Type of Reporting Person CO	

1	Names of Reporting Persons Carlyle Holdings I GP Sub L.L.C.	
2	Check the Appropriate Box if a Member of a Group (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC Use Only	
4	Source of Funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>	
6	Citizenship or Place of Organization Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	Sole Voting Power 0
	8	Shared Voting Power 2,893,615
	9	Sole Dispositive Power 0
	10	Shared Dispositive Power 2,893,615
11	Aggregate Amount Beneficially Owned by Each Reporting Person 2,893,615	
12	Check if the Aggregate Amount in Row (11) Excludes Certain Shares <input type="checkbox"/>	
13	Percent of Class Represented by Amount in Row (11) 9.99%	
14	Type of Reporting Person OO (Limited Liability Company)	

1	Names of Reporting Persons Carlyle Holdings I L.P.	
2	Check the Appropriate Box if a Member of a Group (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC Use Only	
4	Source of Funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>	
6	Citizenship or Place of Organization Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	Sole Voting Power 0
	8	Shared Voting Power 2,893,615
	9	Sole Dispositive Power 0
	10	Shared Dispositive Power 2,893,615
11	Aggregate Amount Beneficially Owned by Each Reporting Person 2,893,615	
12	Check if the Aggregate Amount in Row (11) Excludes Certain Shares <input type="checkbox"/>	
13	Percent of Class Represented by Amount in Row (11) 9.99%	
14	Type of Reporting Person PN	

1	Names of Reporting Persons CG Subsidiary Holdings L.L.C.	
2	Check the Appropriate Box if a Member of a Group (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC Use Only	
4	Source of Funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>	
6	Citizenship or Place of Organization Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	Sole Voting Power 0
	8	Shared Voting Power 2,893,615
	9	Sole Dispositive Power 0
	10	Shared Dispositive Power 2,893,615
11	Aggregate Amount Beneficially Owned by Each Reporting Person 2,893,615	
12	Check if the Aggregate Amount in Row (11) Excludes Certain Shares <input type="checkbox"/>	
13	Percent of Class Represented by Amount in Row (11) 9.99%	
14	Type of Reporting Person OO (Limited Liability Company)	

1	Names of Reporting Persons TC Group, L.L.C.	
2	Check the Appropriate Box if a Member of a Group (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC Use Only	
4	Source of Funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>	
6	Citizenship or Place of Organization Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	Sole Voting Power 0
	8	Shared Voting Power 2,893,615
	9	Sole Dispositive Power 0
	10	Shared Dispositive Power 2,893,615
11	Aggregate Amount Beneficially Owned by Each Reporting Person 2,893,615	
12	Check if the Aggregate Amount in Row (11) Excludes Certain Shares <input type="checkbox"/>	
13	Percent of Class Represented by Amount in Row (11) 9.99%	
14	Type of Reporting Person OO (Limited Liability Company)	

1	Names of Reporting Persons Carlyle Investment Management L.L.C.	
2	Check the Appropriate Box if a Member of a Group (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC Use Only	
4	Source of Funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>	
6	Citizenship or Place of Organization Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	Sole Voting Power 0
	8	Shared Voting Power 2,893,615
	9	Sole Dispositive Power 0
	10	Shared Dispositive Power 2,893,615
11	Aggregate Amount Beneficially Owned by Each Reporting Person 2,893,615	
12	Check if the Aggregate Amount in Row (11) Excludes Certain Shares <input type="checkbox"/>	
13	Percent of Class Represented by Amount in Row (11) 9.99%	
14	Type of Reporting Person OO (Limited Liability Company)	



1	Names of Reporting Persons Carlyle Genesis UK LLC	
2	Check the Appropriate Box if a Member of a Group (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC Use Only	
4	Source of Funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>	
6	Citizenship or Place of Organization Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	Sole Voting Power 0
	8	Shared Voting Power 2,893,615
	9	Sole Dispositive Power 0
	10	Shared Dispositive Power 2,893,615
11	Aggregate Amount Beneficially Owned by Each Reporting Person 2,893,615	
12	Check if the Aggregate Amount in Row (11) Excludes Certain Shares <input type="checkbox"/>	
13	Percent of Class Represented by Amount in Row (11) 9.99%	
14	Type of Reporting Person OO (Limited Liability Company)	

1	Names of Reporting Persons Abingworth LLP	
2	Check the Appropriate Box if a Member of a Group (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC Use Only	
4	Source of Funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>	
6	Citizenship or Place of Organization England and Wales	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	Sole Voting Power 0
	8	Shared Voting Power 2,893,615
	9	Sole Dispositive Power 0
	10	Shared Dispositive Power 2,893,615
11	Aggregate Amount Beneficially Owned by Each Reporting Person 2,893,615	
12	Check if the Aggregate Amount in Row (11) Excludes Certain Shares <input type="checkbox"/>	
13	Percent of Class Represented by Amount in Row (11) 9.99%	
14	Type of Reporting Person PN	

1	Names of Reporting Persons Abingworth Bioventures VII LP	
2	Check the Appropriate Box if a Member of a Group (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC Use Only	
4	Source of Funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>	
6	Citizenship or Place of Organization England and Wales	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	Sole Voting Power 0
	8	Shared Voting Power 2,893,615
	9	Sole Dispositive Power 0
	10	Shared Dispositive Power 2,893,615
11	Aggregate Amount Beneficially Owned by Each Reporting Person 2,893,615	
12	Check if the Aggregate Amount in Row (11) Excludes Certain Shares <input type="checkbox"/>	
13	Percent of Class Represented by Amount in Row (11) 9.99%	
14	Type of Reporting Person PN	

**Explanatory Note**

This Amendment No. 8 to Schedule 13D (“Amendment No. 8”) amends and supplements the Schedule 13D originally filed with the United States Securities and Exchange Commission on December 27, 2018 (as amended to date, the “Schedule 13D”), relating to the shares of common stock, par value \$0.001 per share (the “Common Stock”), of Soleno Therapeutics, Inc., a Delaware corporation (the “Issuer”). Capitalized terms used herein without definition shall have the meanings set forth in the Schedule 13D.

**Item 3. Source and Amount of Funds or Other Consideration.**

Item 3 of the Schedule 13D is hereby amended and supplemented as follows:

On October 12, 2023, Abingworth Bioventures VII LP exercised its right to purchase 1,778,000 shares of Common Stock for \$2.50 per share pursuant to the terms of the Tranche B Warrants. Pursuant to the terms of the Tranche B Warrants, which prevents the Tranche B Warrants from being exercised for shares of Common Stock if such exercise would result in Abingworth Bioventures VII LP becoming the beneficial owner of more than 9.99% of the Issuer’s voting securities, Abingworth Bioventures VII LP was issued 1,326,368 shares of Common Stock and 451,632 prefunded warrants to purchase shares of Common Stock (the “Prefunded Warrants”).

The Prefunded Warrants are immediately exercisable for \$0.01 per share and do not expire. However, the Prefunded Warrants contain provisions preventing the Prefunded Warrants from being exercised if such exercise would result in Abingworth Bioventures VII LP becoming the beneficial owner of more than 9.99% of the Issuer’s voting securities.

Abingworth Bioventures VII LP used investment capital to fund the exercise of the Tranche B Warrants.

**Item 5. Interest in Securities of the Issuer.**

Item 5 of the Schedule 13D is hereby amended and restated in its entirety as follows:

(a) – (b) The following sets forth, as of the date of this Schedule 13D, the aggregate number of shares of Common Stock and percentage of Common Stock beneficially owned by each of the Reporting Persons, as well as the number of shares of Common Stock as to which each Reporting Person has the sole power to vote or to direct the vote, shared power to vote or to direct the vote, sole power to dispose or to direct the disposition of, or shared power to dispose or to direct the disposition of, as of the date hereof, based on 28,965,118 shares of Common Stock, which includes (i) 27,602,939 shares of Common Stock outstanding as of October 12, 2023, as provided by the Issuer, (ii) 1,326,368 shares of Common Stock issued to Abingworth Bioventures VII LP pursuant to the Tranche B Warrant exercise, (iii) 20,247 shares of Common Stock underlying stock options exercisable within 60 days as of the date hereof and (iv) 15,564 shares of Common Stock underlying warrants convertible within 60 days as of the date hereof.

<b>Reporting Person</b>	<b>Amount beneficially owned</b>	<b>Percent of class</b>	<b>Sole power to vote or to direct the vote</b>	<b>Shared power to vote or to direct the vote</b>	<b>Sole power to dispose or to direct the disposition</b>	<b>Shared power to dispose or to direct the disposition</b>
The Carlyle Group Inc.	2,893,615	9.99%	0	2,893,615	0	2,893,615
Carlyle Holdings I GP Inc.	2,893,615	9.99%	0	2,893,615	0	2,893,615
Carlyle Holdings I GP Sub L.L.C.	2,893,615	9.99%	0	2,893,615	0	2,893,615
Carlyle Holdings I L.P.	2,893,615	9.99%	0	2,893,615	0	2,893,615
CG Subsidiary Holdings L.L.C.	2,893,615	9.99%	0	2,893,615	0	2,893,615
TC Group, L.L.C.	2,893,615	9.99%	0	2,893,615	0	2,893,615
Carlyle Investment Management L.L.C.	2,893,615	9.99%	0	2,893,615	0	2,893,615
Carlyle Genesis UK LLC	2,893,615	9.99%	0	2,893,615	0	2,893,615
Abingworth LLP	2,893,615	9.99%	0	2,893,615	0	2,893,615
Abingworth Bioventures VII LP	2,893,615	9.99%	0	2,893,615	0	2,893,615

Includes (i) 2,857,804 shares of Common Stock held of record by Abingworth Bioventures VII LP, (ii) 20,247 shares of Common Stock underlying stock options exercisable within 60 days as of the date hereof and (iii) 15,564 shares of Common Stock underlying warrants convertible within 60 days as of the date hereof.

The amount of securities disclosed excludes (i) 514,666 shares of Common Stock underlying the March 2022 Warrants, which contain a provision prohibiting exercise to the extent that the holder, together with its affiliates, would beneficially own in excess of 4.99% of the total number of shares of Common Stock then issued and outstanding, and (ii) 1,213,758 shares of Common Stock underlying the Prefunded Warrants, which contain a provision prohibiting exercise to the extent that the holder, together with its affiliates, would beneficially own in excess of 9.99% of the total number of shares of Common Stock then issued and outstanding.

The Carlyle Group Inc., which is a publicly traded entity listed on Nasdaq, is the sole shareholder of Carlyle Holdings I GP Inc., which is the sole member of Carlyle Holdings I GP Sub L.L.C., which is the general partner of Carlyle Holdings I L.P., which, with respect to the securities reported herein, is the managing member of CG Subsidiary Holdings L.L.C., which is the managing member of TC Group, L.L.C., which is the managing member of Carlyle Investment Management, L.L.C., which is the sole member of Carlyle Genesis UK LLC, which is the principal member of Abingworth LLP. Abingworth Bioventures VII LP has delegated to Abingworth LLP all investment and dispositive power over the securities held of record by Abingworth Bioventures VII LP. Accordingly, each of the foregoing entities may be deemed to share beneficial ownership of the securities held of record by Abingworth Bioventures VII LP, but each disclaims beneficial ownership of such securities.

- (c) Other than as described in Item 3 above, during the past 60 days, the Reporting Persons have not effected any transactions with respect to the Common Stock.
- (d) None.
- (e) Not applicable.

**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:** October 16, 2023

**The Carlyle Group Inc.**

By: /s/ Anne Frederick, attorney-in-fact

Name: John C. Redett

Title: Chief Financial Officer

**Carlyle Holdings I GP Inc.**

By: /s/ Anne Frederick, attorney-in-fact

Name: John C. Redett

Title: Managing Director and Chief Financial Officer

**Carlyle Holdings I GP Sub L.L.C.**

By: Carlyle Holdings I GP Inc., its sole member

By: /s/ Anne Frederick, attorney-in-fact

Name: John C. Redett

Title: Managing Director and Chief Financial Officer

**Carlyle Holdings I L.P.**

By: /s/ Anne Frederick, attorney-in-fact

Name: John C. Redett

Title: Managing Director

**CG Subsidiary Holdings L.L.C.**

By: /s/ Anne Frederick, attorney-in-fact

Name: John C. Redett

Title: Managing Director

**TC Group, L.L.C.**

By: /s/ Anne Frederick, attorney-in-fact

Name: John C. Redett

Title: Managing Director

**Carlyle Investment Management L.L.C.**

By: /s/ Anne Frederick, attorney-in-fact

Name: John C. Redett

Title: Chief Financial Officer

**Carlyle Genesis UK LLC**

By: Carlyle Investment Management L.L.C., its sole member

By: /s/ Anne Frederick, attorney-in-fact

Name: John C. Redett

Title: Chief Financial Officer

**Abingworth LLP**

By: /s/ John Heard

Name: John Heard

Title: Authorized Signatory

**Abingworth Bioventures VII LP**

By: /s/ John Heard

Name: John Heard

Title: Authorized Signatory