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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. )\***

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

**Common Stock, \$0.0001 par value per share**  
(Title of Class of Securities)

**03828A 101**  
(CUSIP Number)

**December 4, 2023**  
(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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<b>1</b>	NAMES OF REPORTING PERSONS	
	Perceptive Advisors LLC	
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
<b>3</b>	SEC USE ONLY	
<b>4</b>	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	<b>5</b>	SOLE VOTING POWER
		0
	<b>6</b>	SHARED VOTING POWER
		4,580,249
	<b>7</b>	SOLE DISPOSITIVE POWER
		0
	<b>8</b>	SHARED DISPOSITIVE POWER
		4,580,249
<b>9</b>	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	4,580,249	
<b>10</b>	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)	
	<input type="checkbox"/>	
<b>11</b>	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9	
	5.9%	
<b>12</b>	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	
	IA	

<b>1</b>	NAMES OF REPORTING PERSONS	
	Joseph Edelman	
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
<b>3</b>	SEC USE ONLY	
<b>4</b>	CITIZENSHIP OR PLACE OF ORGANIZATION	
	United States of America	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	<b>5</b>	SOLE VOTING POWER
		0
	<b>6</b>	SHARED VOTING POWER
		4,580,249
	<b>7</b>	SOLE DISPOSITIVE POWER
		0
	<b>8</b>	SHARED DISPOSITIVE POWER
		4,580,249
<b>9</b>	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	4,580,249	
<b>10</b>	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)	
	<input type="checkbox"/>	
<b>11</b>	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9	
	5.9%	
<b>12</b>	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	
	IN	

<b>1</b>	NAMES OF REPORTING PERSONS	
	Perceptive Life Sciences Master Fund, Ltd.	
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
<b>3</b>	SEC USE ONLY	
<b>4</b>	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Cayman Islands	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	<b>5</b>	SOLE VOTING POWER
		0
	<b>6</b>	SHARED VOTING POWER
		4,580,249
	<b>7</b>	SOLE DISPOSITIVE POWER
		0
	<b>8</b>	SHARED DISPOSITIVE POWER
		4,580,249
<b>9</b>	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	4,580,249	
<b>10</b>	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)	
	<input type="checkbox"/>	
<b>11</b>	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9	
	5.9%	
<b>12</b>	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	
	CO	

**Item 1(a). Name of Issuer:**

Applied Therapeutics, Inc. (the “Issuer”)

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

545 Fifth Avenue, Suite 1400  
New York, N.Y. 10017

**Item 2(a). Names of Persons Filing:**

The names of the persons filing this report (collectively, the “Reporting Persons”) are:

Perceptive Advisors LLC (“Perceptive Advisors”)  
Joseph Edelman (“Mr. Edelman”)  
Perceptive Life Sciences Master Fund, Ltd. (the “Master Fund”)

**Item 2(b). Address of Principal Business Office or, if None, Residence:**

The address of the principal business office of each of the Reporting Persons is:

51 Astor Place, 10th Floor  
New York, NY 10003

**Item 2(c). Citizenship:**

Perceptive Advisors is a Delaware limited liability company  
Mr. Edelman is a United States citizen  
The Master Fund is a Cayman Islands corporation

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

Common Stock, \$0.0001 par value per share (“Common Stock”)

**Item 2(e). CUSIP Number:**

03828A 101

**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:**

Not applicable.

**Item 4. Ownership.**

The information required by this item with respect to each Reporting Person is set forth in Rows 5 through 9 and 11 of the cover page to this Schedule 13G. The ownership percentages reported are based on 77,229,207 shares of Common Stock outstanding as reported by the Issuer in its Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 9, 2023, and gives effect to the exercise of the Call Options (as defined below) held by the Master Fund.

The Master Fund directly holds 4,080,249 shares of Common Stock and call options exercisable for 500,000 shares of Common Stock (the "Call Options"). Perceptive Advisors serves as the investment manager to the Master Fund and may be deemed to beneficially own shares held by the Master Fund. Mr. Edelman is the managing member of Perceptive Advisors and may be deemed to beneficially own the shares held by the Master Fund.

**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 Persons have ceased to be the beneficial owner of more than five 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 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.**

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 its knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Date: December 6, 2023

PERCEPTIVE ADVISORS LLC

By: /s/ Joseph Edelman

Name: Joseph Edelman

Title: Managing Member

/s/ Joseph Edelman

JOSEPH EDELMAN

PERCEPTIVE LIFE SCIENCES MASTER FUND, LTD.

By: Perceptive Advisors LLC

By: /s/ Joseph Edelman

Name: Joseph Edelman

Title: Managing Member