UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

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Under the Securities Exchange Act of 1934 (Amendment No. 10)*

Aldeyra Therapeutics, Inc.

(Name of Issuer)

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

01438T 10 6 (CUSIP Number)

December 31, 2023 (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 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).

CUSIP No. 01438T 10 6

| 1 | 1 NAMES OF REPORTING PERSONS | | |
|-------------------------------|---|-----|---|
| | Perceptive | Adv | risors LLC |
| 2 | | | APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) |
| | (a) □ | (b) | |
| 3 | SEC USE | ONI | Y |
| | | | |
| 4 | 4 CITIZENSHIP OR PLACE OF ORGANIZATION | | |
| | Delaware | | |
| | | 5 | SOLE VOTING POWER |
| | | | |
| | JMBER OF | | 0 SHARED VOTING POWER |
| | SHARES | 6 | SHARED VOTING POWER |
| | BENEFICIALLY OWNED BY 8,593,586 | | |
| EACH 7 SOLE DISPOSITIVE POWER | | | |
| | EPORTING PERSON | | |
| | WITH: | 8 | 0 SHARED DISPOSITIVE POWER |
| | | 0 | SHARED DISPOSITIVE POWER |
| | | | 8,593,586 |
| 9 | AGGREGA | ATE | AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON |
| | 0.502.597 | | |
| 10 | 8,593,586 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) | | |
| 10 | CILECITE | 011 | |
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| 11 | 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 | | |
| | 14.6% | | |
| 12 | | | |
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| | IA | | |

CUSIP No. 01438T 10 6

| 1 | 1 NAMES OF REPORTING PERSONS | | |
|----|---|------|---|
| | Joseph Ede | lma | n |
| 2 | | | |
| | (a) 🗆 | (b) | |
| 3 | 3 SEC USE ONLY | | |
| 4 | CITIZENS | ПID | OR PLACE OF ORGANIZATION |
| 4 | CITIZENS | Ш | OR FLACE OF ORGANIZATION |
| | United States of America | | |
| | | 5 | SOLE VOTING POWER |
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| | JMBER OF SHARES | 6 | SHARED VOTING POWER |
| | NEFICIALLY | | |
| O | OWNED BY 8,593,586 | | |
| RI | EACH EPORTING | 7 | SOLE DISPOSITIVE POWER |
| | PERSON | | |
| | WITH: | 8 | SHARED DISPOSITIVE POWER |
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| 9 | ACCDEC | ATE | 8,593,586 AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON |
| , | AUGKEU | AI L | AWOON BENEFICIALLY OWNED BY EACH REPORTING LERSON |
| | 8,593,586 | | |
| 10 | CHECK B | OX | IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) |
| | | | |
| 11 | | | |
| | | | |
| | 14.6% | | |
| 12 | TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) | | ORTING PERSON (SEE INSTRUCTIONS) |
| | IN | | |
| | | | |

CUSIP No. 01438T 10 6

| 1 | 1 NAMES OF REPORTING PERSONS | | |
|----|--|----|--|
| | Perceptive Life Sciences Master Fund, Ltd. | | |
| 2 | | | |
| | , , | | |
| 3 | SEC USE ONLY | | |
| 4 | 4 CITIZENSHIP OR PLACE OF ORGANIZATION | | |
| | Cayman Islands | | |
| | | 5 | SOLE VOTING POWER |
| NU | JMBER OF | | 0 |
| | SHARES 6 SHARED VOTING POWER | | |
| | BENEFICIALLY OWNED BY 8,593,586 | | |
| RI | EACH 7 SOLE DISPOSITIVE POWER REPORTING | | |
| | PERSON 0 | | |
| | WITH: | 8 | SHARED DISPOSITIVE POWER |
| | | | 8,593,586 |
| 9 | AGGREGA | ГΕ | AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON |
| | 8,593,586 | | |
| 10 | 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) | | |
| | | | |
| 11 | 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 | | |
| | 14.6% | | |
| 12 | 2 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) | | |
| | CO | | |

Item 1(a). Name of Issuer:

Aldeyra Therapeutics, Inc. (the "Issuer")

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

131 Hartwell Avenue, Suite 320, Lexington, MA 02421

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). <u>Citizenship</u>:

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). <u>Title of Class of Securities</u>:

Common Stock, \$0.001 par value per share ("Common Stock")

Item 2(e). <u>CUSIP Number</u>:

01438T 106

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 58,822,083 outstanding shares of Common Stock as reported by the Issuer in its Form 10-Q filed on November 3, 2023.

The Master Fund directly holds 8,593,586 shares of Common Stock. Perceptive Advisors serves as the investment manager to the Master Fund and may be deemed to beneficially own such shares. Mr. Edelman is the managing member of Perceptive Advisors and may be deemed to beneficially own such shares.

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 \Box .

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. <u>Identification and Classification of Members of the Group.</u>

Not applicable.

Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. <u>Certification</u>.

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: February 14, 2024

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