SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G/A

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

Abeona Therapeutics Inc.

(Name of Issuer)

Common Stock, par value \$0.01 per share

(Title of Class of Securities)

00289Y206

(CUSIP Number)

May 31, 2024

(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)

 \square Rule 13d-1(c)

 \square Rule 13d-1(d)

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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 the disclosures provided in a prior cover page.

**The original Schedule 13G and any amendment thereto filed with the Securities and Exchange Commission with respect to the shares of Common Stock held by the Reporting Persons (as defined in Item 2(a) hereof) prior to the date hereof was filed by Adage Capital Partners GP, L.L.C. (CIK 0001165408), which is no longer a Reporting Person with respect to the shares of Common Stock held by the Reporting Persons.

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 ("<u>Act</u>") 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 | NAME OF REPORTING PERSON Adage Capital Management, L.P. | | | | | |
|--|--|---|--|--|--|--|
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b) | | | | | |
| 3 | SEC USE ONLY | | | | | |
| 4 | CITIZENSHIP OR PLACE OF ORGANIZATION Delaware | | | | | |
| | 5 | SOLE VOTING POWER 0 | | | | |
| NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH: | 6 | 6 SHARED VOTING POWER 4,210,429 shares of Common Stock (including 960,435 shares of Common Stock issuable upon the exercise of warrants) | | | | |
| | 7 | SOLE DISPOSITIVE POWER 0 | | | | |
| | 8 | 8 SHARED DISPOSITIVE POWER 4,210,429 shares of Common Stock (including 960,435 shares of Common Stock issuable upon the exercise of warrants) | | | | |
| 9 | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 4,210,429 shares of Common Stock (including 960,435 shares of Common Stock issuable upon the exercise of warrants) | | | | | |

| 10 | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | |
|----|--|--|
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.99% | |
| 12 | TYPE OF REPORTING PERSON PN; IA | |

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| 1 | NAME OF REPORTING PERSON Robert Atchinson | | | |
|---|--|--|--|--|
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) | | | |
| 3 | SEC USE ONLY | | | |
| 4 | CITIZENSHIP OR PLACE OF ORGANIZATION United States | | | |
| | 5 | SOLE VOTING POWER 0 | | |
| NUMBER OF SHARES BENEFICIALLY | 6 SHARED VOTING POWER 4,210,429 shares of Common Stock (including 960,435 shares of Common Stock issuable upon the exercise of warrants) | | | |
| OWNED BY EACH REPORTING PERSON WITH: | 7 | SOLE DISPOSITIVE POWER 0 | | |
| PERSON WITH: | 8 | SHARED DISPOSITIVE POWER 4,210,429 shares of Common Stock (including 960,435 shares of Common Stock issuable upon the exercise of warrants) | | |
| 9 | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 4,210,429 shares of Common Stock (including 960,435 shares of Common Stock issuable upon the exercise of warrants) | | | |
| 10 | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.99% | | | |
| 12 | TYPE OF REPORTING PERSON IN; HC | | | |

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| 1 | NAME OF REPORTING PERSON Phillip Gross | | |
|-------------------------------------|--|------------------------|--|
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b) | | |
| 3 | SEC USE ONLY | | |
| 4 | CITIZENSHIP OR PLACE OF ORGANIZATION United States | | |
| | 5 | SOLE VOTING POWER 0 | |
| NUMBER OF SHARES BENEFICIALLY | 6 SHARED VOTING POWER 4,210,429 shares of Common Stock (including 960,435 shares of Common Stock issuable upon the exercise of warrants) | | |

| OWNED BY EACH REPORTING PERSON WITH: | 7 | SOLE DISPOSITIVE POWER 0 | |
|---|--|---|------|
| | 8 | SHARED DISPOSITIVE POWER 4,210,429 shares of Common Stock (including 960,435 shares of Common Stock issuable upon the exer of warrants) | cise |
| 9 | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 4,210,429 shares of Common Stock (including 960,435 shares of Common Stock issuable upon the exercise of warrants) | | |
| 10 | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.99% | | |
| 12 | TYPE OF REPORT IN; HC | TING PERSON | |

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| Item 1(a). | NAME OF ISSUER The name of the issuer is Abeona Therapeutics Inc. (the " <u>Company</u> "). | | |
|------------|--|--|--|
| Item 1(b). | ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES The Company's principal executive offices are located at 6555 Carnegie Ave, 4th Floor, Cleveland, OH 44103. | | |
| Item 2(a). | NAME OF PERSON FILING This statement is filed by: | | |
| | (i) Adage Capital Management, L.P., a Delaware limited partnership (" <u>ACM</u> "), as the investment manager of ACP, with respect to the shares of Common Stock directly held by Adage Capital Partners, L.P., a Delaware limited partnership (" <u>ACP</u> "); | | |
| | (ii) Robert Atchinson (" <u>Mr. Atchinson</u> "), as (1) managing member of Adage Capital Advisors, L.L.C., a limited liability company organized under the laws of the State of Delaware (" <u>ACA</u> "), managing member of Adage Capital Partners GP, L.L.C., a limited liability company organized under the laws of the State of Delaware (" <u>ACPGP</u> "), general partner of ACP and (2) managing member of Adage Capital Partners LLC, a Delaware limited liability company (" <u>ACPLLC</u> "), general partner of ACM, with respect to the shares of Common Stock directly held by ACP; and | | |
| | (iii) Phillip Gross (" <u>Mr. Gross</u> "), as (1) managing member of ACA, managing member of ACPGP and (2) managing member of ACPLLC, general partner of ACM, with respect to the shares of Common Stock directly held by ACP. | | |
| | The foregoing persons are hereinafter sometimes collectively referred to as the " <u>Reporting Persons</u> ." Any disclosures herein with respect to persons other than the Reporting Persons are made on information and belief after making inquiry to the appropriate party. | | |
| | The filing of this statement should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of the securities reported herein. | | |
| Item 2(b). | ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE The address of the business office of each of the Reporting Persons is 200 Clarendon Street, 52nd Floor, Boston, Massachusetts 02116. | | |
| Item 2(c). | CITIZENSHIP ACM is a limited partnership organized under the laws of the State of Delaware. Messrs. Gross and Atchinson are citizens of the United States. | | |
| Item 2(d). | TITLE OF CLASS OF SECURITIES Common Stock, par value \$0.01 per share (the " <u>Common Stock</u> "). | | |
| Item 2(e). | CUSIP NUMBER 00289Y206 | | |

| 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 1 | 940; |
| | (e) | V | 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)(i | ii)(F); |
| | (g) | V | A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii) | (G); |
| | (h) | | A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act | t; |
| | (i) | | A church plan that is excluded from the definition of an investment company under S Investment Company Act; | bection $3(c)(14)$ of the |
| | (j) | | A non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J); | |
| | (k) | | Group, in accordance with Rule 13d-1(b)(1)(ii)(K). | |
| | | | on-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please pe of institution: <u>Not applicable.</u> | |
| Item 4. | OWNERSHIP The information required by Items $4(a) - (c)$ is set forth in Rows $(5) - (11)$ of the cover page for each Reporting Person hereto and is incorporated herein by reference for each such Reporting Person. | | | |
| | of May 2024, | / 10, 2 filed w | ge set forth in this Schedule 13G/A is calculated based upon 41,186,004 shares of Com 024, as reported in the Company's Quarterly Report on Form 10-Q for the quarterly with the Securities and Exchange Commission on May 15, 2024, and assumes the by ACP. | period ended March 31, |
| 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 See Item 2(a). | | | |
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| 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. | CERT Each o | | TION eporting Persons hereby makes the following certification: | |
| | above or with | were ad the ef | low each Reporting Person certifies that, to the best of his or its knowledge and belief, equired and are held in the ordinary course of business and were not acquired and are n fect of changing or influencing the control of the issuer of the securities and were not with or as a participant in any transaction having that purpose or effect. | ot held for the purpose of |

SIGNATURES

After reasonable inquiry and to the best of his or its knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

DATE: June 3, 2024

ADAGE CAPITAL MANAGEMENT, L.P. By: Adage Capital Partners LLC, its general partner

<u>/s/ Robert Atchinson</u> Name: Robert Atchinson Title: Managing Member

<u>/s/ Robert Atchinson</u> ROBERT ATCHINSON, individually

<u>/s/ Phillip Gross</u> PHILLIP GROSS, individually

EXHIBIT 1

JOINT FILING AGREEMENT PURSUANT TO RULE 13d-1(k)

The undersigned acknowledge and agree that the foregoing statement on Schedule 13G is filed on behalf of each of the undersigned and that all subsequent amendments to this statement on Schedule 13G shall be filed on behalf of each of the undersigned without the necessity of filing additional joint filing agreements. The undersigned acknowledge that each shall be responsible for the timely filing of such amendments, and for the completeness and accuracy of the information concerning him or it contained herein and therein, but shall not be responsible for the completeness and accuracy of the information concerning the others, except to the extent that he or it knows or has reason to believe that such information is inaccurate.

DATE: June 3, 2024

ADAGE CAPITAL MANAGEMENT, L.P. By: Adage Capital Partners LLC, its general partner

<u>/s/ Robert Atchinson</u> Name: Robert Atchinson Title: Managing Member

<u>/s/ Robert Atchinson</u> ROBERT ATCHINSON, individually

<u>/s/ Phillip Gross</u> PHILLIP GROSS, individually