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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549**

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**FORM 8-A/A  
Amendment No. 1**

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**FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES  
PURSUANT TO SECTION 12(b) OR (g) OF THE  
SECURITIES EXCHANGE ACT OF 1934**

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**Aldeyra Therapeutics, Inc.**  
(Exact name of registrant as specified in its charter)

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**Delaware**  
(State of incorporation  
or organization)

**20-1968197**  
(I.R.S. Employer  
Identification No.)

**15 New England Executive Park**  
**Burlington, Massachusetts**  
(Address of principal executive offices)

**01803**  
(Zip Code)

**Securities to be registered pursuant to Section 12(b) of the Act:**

Title of each class  
to be so registered  
**Common stock, par value \$0.001 per share**

Name of each exchange on which  
each class is to be registered  
**The NASDAQ Stock Market, LLC**

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If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A. (c), check the following box.

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A. (d), check the following box.

**Securities Act registration statement file number to which this form relates: 333-193204**

**Securities to be registered pursuant to Section 12(g) of the Act: None**

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## EXPLANATORY NOTE

Aldeyra Therapeutics, Inc. (the “Registrant”) is filing this Amendment No. 1 on Form 8-A/A (the “Amendment”) to amend its previously filed Form 8-A (File No. 001-36332) filed with the Securities and Exchange Commission (the “SEC”) on March 4, 2014 (the “Original 8-A”). This Amendment amends the Original 8-A to reflect the change of the Registrant’s legal name from Aldexa Therapeutics, Inc. to Aldeyra Therapeutics, Inc.

**Item 1. Description of Registrant's Securities to be Registered.**

The description of the common stock of Aldeyra Therapeutics, Inc. (the "Registrant"), par value \$0.001 per share, to be registered hereunder set forth under the caption "Description of Capital Stock" in the Registrant's Registration Statement on Form S-1 (File No. 333-193204) as originally filed with the Securities and Exchange Commission on January 6, 2014, including any subsequent amendments thereto (the "Form S-1"), and in the prospectus to be filed by the Registrant pursuant to Rule 424(b) of the Securities Act of 1933, as amended, which prospectus will constitute a part of the Form S-1, is hereby incorporated by reference in response to this item.

**Item 2. Exhibits.**

In accordance with the "Instructions as to Exhibits" with respect to Form 8-A, no exhibits are required to be filed as part of this registration statement because no other securities of the Registrant are registered on The NASDAQ Stock Market, LLC and the securities registered hereby are not being registered pursuant to Section 12(g) of the Securities Exchange Act of 1934.

**SIGNATURE**

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the Registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized.

Dated: March 24, 2014

**ALDEYRA THERAPEUTICS, INC.**

By: /s/ Todd C. Brady, M.D., Ph.D.

Todd C. Brady, M.D., Ph.D.

President and Chief Executive Officer