

Aeglea BioTherapeutics, Inc.  
Form 8-K  
April 12, 2018

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d)

of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): April 11, 2018

AEGLEA BIOTHERAPEUTICS, INC.

(Exact name of registrant as specified in its charter)

|                              |              |                     |
|------------------------------|--------------|---------------------|
| Delaware                     | 001-37722    | 46-4312787          |
| (State or other jurisdiction | (Commission  | (IRS Employer       |
| of incorporation)            | File Number) | Identification No.) |

901 S. MoPac Expressway

Barton Oaks Plaza One

Suite 250

|  |            |
|--|------------|
| Austin, TX                               | 78746      |
| (Address of principal executive offices) | (Zip Code) |

(512) 942-2935

(Registrant's telephone number, including area code)

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 7.01 Regulation FD Disclosure.

On April 12, 2018, Aeglea BioTherapeutics, Inc. (the “Company”) will present the presentation poster attached hereto as Exhibit 99.1, which contains certain new data from the Company’s Phase 1/2 clinical trial for the treatment of Arginase 1 Deficiency patients using pegzilarginase at the 2018 Annual Clinical Genetics Meeting of the American College of Medical Genetics and Genomics (ACMG) in Charlotte, North Carolina, being held April 10-14, 2018. The presentation poster will also be available on the Company’s website in the Events & Presentations section at [www.aegleabio.com](http://www.aegleabio.com).

The information furnished with this report, including Exhibit 99.1, shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (“Exchange Act”), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference into any other filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number Description

99.1            Presentation Poster

2

---

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

AEGLEA  
BIOTHERAPEUTICS,  
INC.

Date: April 11, 2018      By: /s/ Charles N. York II  
Charles N. York II  
Chief Financial Officer