

Aeglea BioTherapeutics, Inc.  
Form 8-K  
October 17, 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): October 17, 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 October 17, 2018, Aeglea BioTherapeutics, Inc. (the “Company”) issued a press release announcing new interim clinical data and improvements in disease manifestations for its ongoing Phase 1/2 trial of Pegzilarginase in patients with Arginase 1 Deficiency, which will be presented in poster format at the American Society of Human Genetics (ASHG) Conference in San Diego, California, being held September 16-20, 2018. A copy of the press release, presentation poster and literature review poster are attached as Exhibits 99.1, 99.2 and 99.3 to this report, respectively. The presentation poster and literature review 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 Exhibits 99.1, 99.2 and 99.3, 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 | <u>Press Release issued by Aeglea BioTherapeutics, Inc. on October 17, 2018</u> |
| 99.2 | <u>Presentation Poster</u>  |
| 99.3 | <u>Literature Review Poster</u>   |

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: October 17, 2018    By: /s/ Charles N. York II  
Charles N. York II  
Chief Financial Officer