
**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): November 1, 2017

Advanced Energy Industries, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation)

000-26966
(Commission File Number)

84-0846841
(IRS Employer Identification
No.)

1625 Sharp Point Drive, Fort Collins, Colorado
(Address of principal executive offices)

80525
(Zip Code)

(970) 221-4670
(Registrant's telephone number, including area code)

Not applicable
(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 (see General Instruction A.2. below):

- 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 8.01 Other Events

On November 1, 2017, the Board of Directors of Advanced Energy Industries, Inc. (the “Company”) approved an extension to its share repurchase program announced on September 16, 2015. The share repurchase program was set to expire on March 15, 2018 and has now been extended to December 31, 2019. As of November 1, 2017, the Company had \$75.0 million remaining for the authorized repurchase of shares of common stock of the Company. Repurchases under the program may be made from time-to-time in the public or private markets, through block trades, Rule 10b5-1 trading plans or other available means and may include the use of derivative contracts and structured and accelerated share repurchase agreements, all in accordance with applicable securities and other laws, including the Securities Exchange Act of 1934, as amended. There is no minimum number of shares to be repurchased under the program, and the program may be suspended or discontinued at any time.

This Current Report on Form 8-K contains forward-looking statements made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995, including forward-looking statements regarding the repurchase program. These statements are neither promises nor guarantees and involve risks and uncertainties that could cause actual results to differ materially from those stated or implied by the forward-looking statements, including, without limitation, risks relating to the Company’s ability to implement and make appropriate, timely and beneficial decisions as to when, how and if to purchase shares under the repurchase program; and other risks described in the Company’s filings with the SEC.

SIGNATURES

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 thereunto duly authorized.

ADVANCED ENERGY INDUSTRIES, INC.

Dated: November 6, 2017

/s/ Thomas Liguori

Thomas Liguori

Executive Vice President & Chief Financial Officer