

[] Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| 1. Name and Address of Reporting Person * | | | | | 2.] | 2. Issuer Name and Ticker or Trading Symbol | | | | | | | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) | | | |
|---|---|-----------------|------------------------------|----------|--|--|-----------------------------|---------|------------|-------------------------|--------------------|------------|---|--|---|---|------------|
| MCGIMPSEY THOMAS O | | | | | | ADVANCED ENERGY INDUSTRIES INC [AEIS] | | | | | | | Director | | 10 | % Owner | |
| (Last) | (First) | First) (Middle) | | | | 3. Date of Earliest Transaction (MM/DD/YYYY) | | | | | | | | X _ Officer (give title below) Other (specify below) EVP Interim CFO & Gen Counsel | | | |
| 1625 SHARP POINT DRIVE | | | | | | 8/16/2018 | | | | | | | | | | | |
| (Street) | | | | | 4.] | 4. If Amendment, Date Original Filed (MM/DD/YYYY) | | | | | | | Y) 6. Individual of | 6. Individual or Joint/Group Filing (Check Applicable Line) | | | |
| FORT COLLINS, CO 80525 (City) (State) (Zip) | | | | | | | | | | | | | X Form filed by One Reporting Person Form filed by More than One Reporting Person | | | | |
| | | | Table | : I - No | on-Dei | rivati | | | • | red, Di | sposed | of, or | Beneficially Own | ed | | | |
| 1.Title of Security (Instr. 3) | | | | 1 | te 2A. Deemed Execution Date, if any | | 3. Trans. Cod (Instr. 8) | | Dispose | | ired (A) | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | | Form: | 7. Nature of Indirect Beneficial Ownership | |
| | | | | | | | | Code | V | Amount | (A) or (D) | Price | | | | or Indirect (I) (Instr. 4) | (Instr. 4) |
| Common Stock 8/16/2018 | | | | 2018 | S 8391 D \$59.32 (2) 41777 (3) | | | D | | | | | | | | | |
| | Tabl | e II - Der | ivativ | e Secu | rities] | Bene | ficially | Owned (| (e.g. | , puts, | calls, v | varran | ts, options, conve | rtible sec | urities) | | |
| (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | | 3A. De Execut Date, it | ion (| 4. Trans. (Instr. 8) | Derivat Acquire Dispose | | | | Date Exer piration D | | Securi | e and Amount of ties Underlying tive Security 3 and 4) | Derivative Security | Securities Beneficially Owned | Ownership Form of Derivative Security: | Beneficial |
| | | | | | Code | de V (| (A) | (D) | Dat Exe | e ercisable | Expiration Date | n Title | Amount or Number of Shares | | Following Reported Transaction(s) (Instr. 4) | Direct (D) or Indirect (I) (Instr. 4) | |

Explanation of Responses:

- (1) The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 plan.
- (2) The price reported in Column 4 is an average price. These shares sold in multiple transactions at prices ranging from \$58.95 to \$59.78. The reporting person undertakes to provide to Advanced Energy, any security holder of Advanced Energy, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set for the in this footnote.
- (3) Represents 11,513 shares of Restricted Stock units and 30,264 shares of common stock.

Reporting Owners

| Panarting Owner Name / Address | Relationships | | | | | | | |
|--------------------------------|---------------|-----------|-------------------------------|-------|--|--|--|--|
| Reporting Owner Name / Address | Director | 10% Owner | Officer | Other | | | | |
| MCGIMPSEY THOMAS O | | | | | | | | |
| 1625 SHARP POINT DRIVE | | | EVP Interim CFO & Gen Counsel | | | | | |
| FORT COLLINS, CO 80525 | | | | | | | | |

Signatures

| /s/ Thomas O. McGimpsey | 8/20/2018 |
|----------------------------------|-----------|
| ** Signature of Reporting Person | Date |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control

