SCHATZ DOUGLAS S

Check this box

if no longer

Section 16.

Form 4 or

subject to

Form 4 April 02, 2012

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

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OMB APPROVAL

SECURITIES

Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

1(b).

P.O. BOX 481

(Print or Type Responses)

1. Name and Address of Reporting Person * SCHATZ DOUGLAS S Symbol

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

ADVANCED ENERGY INDUSTRIES INC [AEIS]

(Check all applicable)

(Last) (First)

(Street)

3. Date of Earliest Transaction (Month/Day/Year)

_X__ Director 10% Owner _ Other (specify Officer (give title below)

04/02/2012

(Middle)

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Applicable Line)

Filed(Month/Day/Year)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

FORT COLLINS, CO 80522

| (City) | (State) | (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned | | | | | | | | | |
|--------------------------------------|---|--|--|---------------------------|---|-----------|--|--|---|--|--|
| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transactic Code (Instr. 8) | (A) or | | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) | | |
| Common Stock | 04/02/2012 | | S | 1,100 (1) (2) | D | \$ 12.82 | 2,940,773 | I | By Trust | | |
| Common Stock | 04/02/2012 | | S | 200 <u>(1)</u> <u>(2)</u> | D | \$ 12.825 | 2,940,573 | I | By Trust | | |
| Common Stock | 04/02/2012 | | S | 1,100 (1) (2) | D | \$ 12.83 | 2,939,473 | I | By Trust | | |
| Common Stock | 04/02/2012 | | S | 300 <u>(1)</u> <u>(2)</u> | D | \$ 12.835 | 2,939,173 | I | By Trust | | |
| Common Stock | 04/02/2012 | | S | 1,100 (1) (2) | D | \$ 12.84 | 2,938,073 | I | By Trust | | |

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| Common Stock | 04/02/2012 | S | $\frac{300}{(2)} \frac{(1)}{}$ I | D | \$ 12.845 | 2,937,773 | I | By Trust |
|-----------------|------------|---|--|---|---------------|-----------|---|----------|
| Common Stock | 04/02/2012 | S | $1,300 \atop \underline{\stackrel{(1)}{\underline{(1)}}} 2$ | D | \$ 12.85 | 2,936,473 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{300}{(2)} \frac{(1)}{1}$ | D | \$ 12.855 | 2,936,173 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{900}{(2)} \frac{(1)}{1}$ | D | \$ 12.86 | 2,935,273 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{800}{(2)} \frac{(1)}{}$ I | D | \$ 12.865 | 2,934,473 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{200}{(2)}$ I | D | \$ 12.867 | 2,934,273 | I | By Trust |
| Common Stock | 04/02/2012 | S | 2,800 (1) (2) | D | \$ 12.87 | 2,931,473 | I | By Trust |
| Common Stock | 04/02/2012 | S | 400 (1) (2) | D | \$ 12.875 | 2,931,073 | I | By Trust |
| Common Stock | 04/02/2012 | S | 800 (1) (2) | D | \$ 12.88 | 2,930,273 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{200}{(2)}^{(1)}$ I | D | \$ 12.885 | 2,930,073 | I | By Trust |
| Common Stock | 04/02/2012 | S | 1,600 (1) (2) | D | \$ 12.89 | 2,928,473 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{200}{(2)}^{(1)}$ I | D | \$ 12.895 | 2,928,273 | I | By Trust |
| Common Stock | 04/02/2012 | S | $1,700 \atop \underline{{}^{(1)}}\underline{{}^{(2)}} I$ | D | \$ 12.9 | 2,926,573 | I | By Trust |
| Common Stock | 04/02/2012 | S | $ \begin{array}{cc} 1,622 \\ \underline{(1)} \ \underline{(2)} \end{array} $ | D | \$ 12.905 | 2,924,951 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{100}{(2)}$ I | D | \$ 12.9075 | 2,924,851 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{100}{(2)} \frac{(1)}{}$ I | D | \$ 12.909 | 2,924,751 | I | By Trust |
| Common Stock | 04/02/2012 | S | 3,425 (1) (2) I | D | \$ 12.91 | 2,921,326 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{2,856}{(1)(2)}$ I | D | \$ 12.92 | 2,918,470 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{800}{(2)} \frac{(1)}{}$ I | D | \$ 12.925 | 2,917,670 | I | By Trust |
| Common Stock | 03/26/2012 | S | $\frac{100}{(2)}$ I | D | \$ 12.9275 | 2,917,570 | I | By Trust |
| | 04/02/2012 | S | I | D | \$ 12.93 | 2,912,466 | I | By Trust |

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| Common Stock | | | 5,140 (1) (2) | | | | |
|-----------------|------------|---|--|---------------|-----------|---|----------|
| Common Stock | 04/02/2012 | S | $\frac{100 {}^{(1)}}{{}^{(2)}} D$ | \$ 12.935 | 2,912,366 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{900}{(2)}$ D | \$ 12.94 | 2,911,466 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{400 {}^{(1)}}{{}^{(2)}} \mathrm{D}$ | \$ 12.945 | 2,911,066 | I | By Trust |
| Common Stock | 04/02/2012 | S | $\frac{100 \frac{(1)}{(2)}}{D}$ | \$ 12.9475 | 2,910,966 | I | By Trust |

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

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 number.

SEC 1474

(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transacti Code (Instr. 8) | 5. onNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | | ate | 7. Titl Amou Under Secur (Instr. | ınt of rlying | 8. Price of Derivative Security (Instr. 5) | 9. Nu Deriv Secun Bene Owno Follo Repo Trans (Instr |
|---|---|--------------------------------------|---|---------------------------------------|---|---------------------|--------------------|--|--|---|---|
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | | |
|---|---------------|-----------|---------|-------|--|--|--|
| ·r· · · · · · · · · · · · · · · · · · · | Director | 10% Owner | Officer | Other | | | |
| SCHATZ DOUGLAS S P.O. BOX 481 | X | | | | | | |
| FORT COLLINS, CO 80522 | | | | | | | |
| Λ! Ι | | | | | | | |

Signatures

/s/ Thomas O. McGimpsey (Attorney-in-Fact) 04/02/2012

Reporting Owners 3

**Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
- Douglas S. Schatz and Jill E. Schatz, husband and wife, are co-trustees of the Family Trust and may be deemed to be indirect beneficial owners of the shares of AEIS common stock held directly by the Family Trust. Douglas S. Schatz is a director of AEIS.
- (2) The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 Plan.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

Signatures 4