

[] 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) | | | | | |
|--|---|---------------------------------------|------------------|--------------|--|---|---------|------------------------------|---------------------|---|----------------------------|--|--|---|--|----------------------------|----------------------------|-------------------------|--|
| SCHOLL RICHARD A | | | | | | ADVANCED ENERGY INDUSTRIES INC [AEIS] | | | | | | | | Directo | Director 10% Owner | | | | |
| (Last) (First) (Middle) | | | | 3. | 3. Date of Earliest Transaction (MM/DD/YYYY) | | | | | | | | XOffic | er (give title bel | ow) | Other (speci | fy below) | | |
| 1625 SHARI | D DAINT | DDIVE | | | | | | 7/ | 20/20 | 04 | | | | SVI anu V | .10 | | | | |
| 1025 SHAKI | (Stre | | | | 4. | If Aı | nendme | nt, Date | | | led (M | M/DI | D/YYYY | 6. Individu | al or Joint/G | roup Filing | (Check Appl | licable Line) | |
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| FORT COL | | | a) | | | | | | | | | | | | led by One Repo d by More than (| | Person | | |
| (C | City) (Sta | ate) (Zi _I | <i>)</i>) | | | | | | | | | | | | | | | | |
| | | | Table | I - No | n-De | rivat | ive Sec | urities A | cquire | ed, D | ispose | d o | f, or Be | eneficially O | wned | | | | |
| 1. Title of Security (Instr. 3) | | | | 2. Tran | s. Date | te 2A. Deemed Execution | | 3. Trans. Code (Instr. 8) | | 4. Securities Acquired (A) 5. or Disposed of (D) Fo | | | | | | | | 7. Nature of Indirect | |
| (msu. 3) | | | | Date, if any | | (msu. o) | | | str. 3, 4 and 5) | | | Following Reported Transaction(s) (Instr. 3 and 4) | | | Form: Direct (D) | Beneficial Ownership | | | |
| | | | | | | | | | | | (Δ |) or | | | | | or Indirect (I) (Instr. | (Instr. 4) | |
| | | | | | | | | Code | V | Amo | | D) | Price | | | | 4) | | |
| Common Stock | | | | | | | | | | | | | | | 209824 | | D | | |
| Common Stock | | | | | | | | | | | | | | | 20292 | | I | By Spouse | |
| | | | | | | | | ļ | | ļ | ļ | | -! | | | | ·L | <u></u> | |
| | T | | , | | | | | | | _ | | | | , options, co | | | 10. | • | |
| Title of Derivate Security | 2. Conversion | Trans.Date | 3A. De Execut | ion (| 4. Trans Code | Derivative | | | | | nd Amount of Underlying | Price of Derivative | 8. Price of Derivative 9. Number of derivative | | Nature of Indirect | | | | |
| (Instr. 3) | or Exercise Price of Derivative Security | | Date, it | f any (| (Instr. 8) | | | | | | | | Derivative S (Instr. 3 and | | | Securities Beneficially | Form of Derivative | Beneficial Ownership | |
| | | | | | | (D) (Instr. 3 | | , 4 and 5) | | | | | | | | Owned Following | Security: Direct (D) | (Instr. 4) | |
| | | | | | | | | | Date | | Expiration | | m' d | Amount or | | Reported | or Indirect (I) (Instr. | | |
| | | | | | Code | V | (A) | (D) | Exerci | sable | | | Title | Number of Shares | | (Instr. 4) | 4) | | |
| Employee Stock Option (right to buy) | \$28.1563 | | | | | | | | 2/9/20 (1 | | 2/9/200 | 9 | Commo Stock | on 10000 | | 10000 | D | | |
| Employee Stock Option (right to buy) | \$43.6875 | | | | | | | | 1/13/2 (1 | | 1/13/201 | 10 | Commo Stock | on 10000 | | 20000 | D | | |
| Employee Stock Option (right to buy) | \$26.125 | | | | | | | | 2/7/20 (1 | | 2/7/201 | 1 | Commo Stock | on 5000 | | 25000 | D | | |
| Employee Stock Option (right to buy) | \$28.55 | | | | | | | | 4/11/2 (1 | | 4/11/201 | 11 | Commo Stock | on 5000 | | 30000 | D | | |
| Employee Stock Option (right to buy) | \$36.49 | | | | | | | | 5/24/2 (3 | | 5/24/201 | 11 | Commo Stock | on 1000 | | 31000 | D | | |
| Employee Stock Option (right to buy) | \$32.19 | | | | | | | | 7/11/2 (1 | | 7/11/201 | 11 | Commo Stock | on 5000 | | 36000 | D | | |
| Employee Stock Option (right to buy) | \$18.00 | | | | | | | | 10/10/ | 2002 | 10/10/20 |)11 | Commo Stock | on 5000 | | 41000 | D | | |
| Employee Stock Option (right to buy) | \$24.90 | | | | | | | | 2/12/2 (1 | | 2/12/201 | 12 | Commo Stock | on 10000 | | 51000 | D | | |
| Employee Stock Option (right to buy) | \$38.55 | | | | | | | | 4/16/2 (1 | | 4/16/201 | 12 | Commo Stock | on 10000 | | 61000 | D | | |
| Employee Stock Option (right to buy) | \$17.85 | | | | | | | | 7/18/2 (1 | | 7/18/201 | 12 | Commo Stock | on 10000 | | 71000 | D | | |
| Employee Stock Option (right to buy) | \$7.70 | | | | | | | | 10/17/ <u>(1</u> | | 10/17/20 |)12 | Commo Stock | on 10000 | | 81000 | D | | |
| | | • | | | | | | | | | | - 1 | | | | | | | |

| | Tab | le II - Deri | vative Sec | urities I | Bene | eficially O | wned (| (<i>e.g</i> . , put | s, calls, w | arrants, o | options, conve | ertible sec | urities) | | |
|--|---|-------------------|---|---------------------------------|------|--|--------|---|--------------------|--|----------------------------------|-------------|--|--|--|
| 1. Title of Derivate Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Trans. Date | 3A. Deemed Execution Date, if any | 4. Trans. Code (Instr. 8) | | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | 6. Date Exercisable and Expiration Date | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | | | 9. Number of derivative Securities Beneficially Owned Following | Form of Derivative Security: Direct (D) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | Reported Transaction(s (Instr. 4) | or Indirect (I) (Instr. 4) | |
| Employee Stock Option (right to buy) | \$9.12 | | | | | | | 2/12/2004 (1) | 2/12/2013 | Common Stock | 5000 | | 86000 | D | |
| Employee Stock Option (right to buy) | \$7.61 | | | | | | | 4/16/2004 | 4/16/2013 | Common Stock | 5000 | | 91000 | D | |
| Employee Stock Option (right to buy) | \$19.24 | | | | | | | 7/23/2004 (1) | 7/23/2013 | Common Stock | 5000 | | 96000 | D | |
| Employee Stock Option (right to buy) | \$22.52 | | | | | | | 10/15/2004 (1) | 10/15/2013 | Common Stock | 5000 | | 101000 | D | |
| Employee Stock Option (right to buy) | \$22.30 | | | | | | | 2/11/2005 (1) | 2/11/2014 | Common Stock | 2500 | | 103500 | D | |
| Employee Stock Option (right to buy) | \$20.81 | | | | | | | 4/14/2005 (1) | 4/14/2014 | Common Stock | 2500 | | 106000 | D | |
| Employee Stock Option (right to buy) | \$12.80 | 7/20/2004 | | A | | 2500 | | 7/20/2005 (1) | 7/20/2014 | Common Stock | 2500 | \$12.80 | 108500 (2) | D | |
| Employee Stock Option (right to buy) | \$12.80 | 7/20/2004 | | A | | 3750 | | 7/20/2005 (1) | 7/20/2014 | Common Stock | 3750 | \$12.80 | 78132 ⁽⁴⁾ | I | By Spouse |

Explanation of Responses:

- (1) Stock options dated 02/09/1999, 01/13/2000, 02/07/2001, 04/11/2001, 07/11/2001, 10/10/2001, 02/12/2002, 04/16/2002, 07/18/2002, 10/17/2002, 02/12/2003, 04/16/2003, 07/23/2003, 10/15/2003, 02/11/2004, 04/14/2004 and 07/20/2004 are such that 1/4 of the shares become exercisable on the first anniversary following the date of grant, and the remaining shares become exercisable in equal increments each quarter for 3 years thereafter.
- (2) Mr. Scholl has Employee Stock Options (right to buy) for a total of 108,500 shares of Common stock.
- (3) Stock option dated May 24, 2001 is fully exercisable 1 year from the date of grant, which was May 24, 2002.
- (4) Mr. Scholl has Employee Stock Options (right to buy) for a total of 78,132 shares, indirectly by spouse, of Common stock with varying exercises prices and expiration dates.

Reporting Owners

| Panarting Owner Name / Address | | Relationships | | | | | | | | |
|--------------------------------|----------|---------------|-------------|-------|--|--|--|--|--|--|
| Reporting Owner Name / Address | Director | 10% Owner | Officer | Other | | | | | | |
| SCHOLL RICHARD A | | | | | | | | | | |
| 1625 SHARP POINT DRIVE | | | SVP and CTO | | | | | | | |
| FORT COLLINS, CO US | | | | | | | | | | |

Signatures



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.

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