

ADVANCED ENERGY INDUSTRIES INC  
 Form 4  
 April 24, 2006

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 SCHATZ DOUGLAS S & SCHATZ  
 JILL E FAMILY TRUST

2. Issuer Name and Ticker or Trading Symbol  
 ADVANCED ENERGY  
 INDUSTRIES INC [AEIS]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)  
 04/20/2006

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

P.O. BOX 481

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 \_\_\_ Form filed by One Reporting Person  
 \_\_\_X\_\_\_ 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. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	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 Ownership (Instr. 4)
			Code	V	Amount or Price		
Common Stock	04/20/2006		S		5,325 D \$ 15.1		9,092,260 <sup>(1)</sup> <sub>(2)</sub> D
Common Stock	04/20/2006		S		1,431 D \$ 15.11		9,090,829 <sup>(1)</sup> <sub>(2)</sub> D
Common Stock	04/20/2006		S		2,285 D \$ 15.12		9,088,544 <sup>(1)</sup> <sub>(2)</sub> D
Common Stock	04/20/2006		S		700 D \$ 15.13		9,087,844 <sup>(1)</sup> <sub>(2)</sub> D
Common Stock	04/20/2006		S		2,000 D \$ 15.15		9,085,844 <sup>(1)</sup> <sub>(2)</sub> D

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Common Stock	04/20/2006	S	1,559	D	\$ 15.16	9,084,285 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	200	D	\$ 15.17	9,084,085 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	200	D	\$ 15.19	9,083,885 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	200	D	\$ 15.21	9,083,685 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	1,600	D	\$ 15.22	9,082,085 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	1,400	D	\$ 15.23	9,080,685 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	300	D	\$ 15.24	9,080,385 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	300	D	\$ 15.25	9,080,085 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	200	D	\$ 15.26	9,079,885 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	600	D	\$ 15.27	9,079,285 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	600	D	\$ 15.28	9,078,685 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	300	D	\$ 15.29	9,078,385 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	400	D	\$ 15.3	9,077,985 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	500	D	\$ 15.31	9,077,485 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	3,100	D	\$ 15.35	9,074,385 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	5,200	D	\$ 15.36	9,069,185 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	1,700	D	\$ 15.37	9,067,485 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	300	D	\$ 15.38	9,067,185 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	300	D	\$ 15.4	9,066,885 <sup>(1)</sup> <u>(2)</u>	D
Common Stock	04/20/2006	S	200	D	\$ 15.41	9,066,685 <sup>(1)</sup> <u>(2)</u>	D
	04/20/2006	S	1,000	D			D

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Common Stock					\$ 9,065,685 <sup>(1)</sup>		
					15.45 <sup>(2)</sup>		
Common Stock	04/20/2006		S	500	D	\$ 9,065,185 <sup>(1)</sup>	D
						15.46 <sup>(2)</sup>	
Common Stock						26,350 <sup>(3)</sup>	D

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

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**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. Transaction 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 (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Owned Beneficially (Instr. 3 and 4)
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## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SCHATZ DOUGLAS S & SCHATZ JILL E FAMILY TRUST P.O. BOX 481 FORT COLLINS, CO 80522		X		
SCHATZ DOUGLAS S P.O. BOX 481 FORT COLLINS, CO 80522	X	X		
Schatz Jill E P.O. BOX 481 FORT COLLINS, CO 80522		X		

## Signatures

/s/ Mary K. Derr -  
Attorney-in-Fact 04/24/2006

\_\_Signature of Reporting Person Date

/s/ Mary K. Derr -  
Attorney-in-Fact 04/24/2006

\_\_Signature of Reporting Person Date

/s/ Mary K. Derr -  
Attorney-in-Fact 04/24/2006

\_\_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).

- (1) Per Rule 10b5-1 Sales Plan.
- (2) These shares are owned directly by the Douglas S. Schatz & Jill E. Schatz Family Trust, a ten percent owner of the issuer, and indirectly by Douglas S. Schatz and Jill E. Schatz, co-trustees of the trust.
- (3) Represents shares of restricted stock units held directly by Douglas S. Schatz.

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