SCHATZ DOUGLAS S

Check this box

if no longer

subject to

Section 16.

Form 4

January 21, 2010

FORM 4

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

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

0.5

Estimated average burden hours per response...

OMB APPROVAL

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Form 4 or 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).

(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

3. Date of Earliest Transaction

5. Relationship of Reporting Person(s) to

Issuer

ADVANCED ENERGY INDUSTRIES INC [AEIS]

(Check all applicable)

(Last) (First) (Middle)

(Month/Day/Year) 01/19/2010

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

PO 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. Transactic Code (Instr. 8)	4. Securities According Disposed of (Instr. 3, 4 and 5) (A) or Amount (D)		(D)	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	01/19/2010		S	4,000	D	\$ 15.69	6,511,392 <u>(1)</u> <u>(2) (3)</u>	D			
Common Stock	01/19/2010		S	100	D	\$ 15.7	6,511,292 <u>(1)</u> <u>(2)</u> <u>(3)</u>	D			
Common Stock	01/19/2010		S	500	D	\$ 15.713	6,510,792 <u>(1)</u> <u>(2)</u> <u>(3)</u>	D			
Common Stock	01/19/2010		S	1,409	D	\$ 15.72	6,509,383 <u>(1)</u> (2) <u>(3)</u>	D			
Common Stock	01/19/2010		S	100	D	\$ 15.7201	6,509,283 <u>(1)</u> (2) <u>(3)</u>	D			

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Common Stock	01/19/2010	S	1,000	D	\$ 15.7235	6,508,283 <u>(1)</u> (2) <u>(3)</u>	D
Common Stock	01/19/2010	S	1,001	D	\$ 15.73	6,507,282 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	100	D	\$ 15.733	6,507,182 <u>(1)</u> <u>(2)</u> <u>(3)</u>	D
Common Stock	01/19/2010	S	100	D	\$ 15.74	6,507,082 <u>(1)</u> (2) <u>(3)</u>	D
Common Stock	01/19/2010	S	2,205	D	\$ 15.75	6,504,877 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	800	D	\$ 15.753	6,504,077 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	1,040	D	\$ 15.76	6,503,037 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	100	D	\$ 15.766	6,502,937 <u>(1)</u> (2) <u>(3)</u>	D
Common Stock	01/19/2010	S	700	D	\$ 15.79	6,502,237 <u>(1)</u> (2) <u>(3)</u>	D
Common Stock	01/19/2010	S	2,300	D	\$ 15.8	6,499,937 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	2,000	D	\$ 15.803	6,497,937 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	500	D	\$ 15.8105	6,497,437 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	1,000	D	\$ 15.8125	6,496,437 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	1,000	D	\$ 15.817	6,495,437 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	2,594	D	\$ 15.82	6,492,843 <u>(1)</u> <u>(2)</u> <u>(3)</u>	D
Common Stock	01/19/2010	S	2,006	D	\$ 15.83	6,490,837 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	3,405	D	\$ 15.84	6,487,432 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	2,000	D	\$ 15.8401	6,485,432 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	2,000	D	\$ 15.842	6,483,432 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	2,495	D	\$ 15.85	6,480,937 <u>(1)</u> (2) (3)	D
	01/19/2010	S	500	D			D

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Common Stock					\$ 15.8501	6,480,437 <u>(1)</u> <u>(2)</u> <u>(3)</u>	
Common Stock	01/19/2010	S	1,500	D	\$ 15.8535	6,478,937 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	1,900	D	\$ 15.8546	6,477,037 <u>(1)</u> <u>(2)</u> <u>(3)</u>	D
Common Stock	01/19/2010	S	2,000	D	\$ 15.86	6,475,037 <u>(1)</u> (2) (3)	D
Common Stock	01/19/2010	S	500	D	\$ 15.8625	6,474,537 <u>(1)</u> (2) (3)	D

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

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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)	4. Transacti Code (Instr. 8)	Securities Acquired (A) or Disposed of (D) (Instr. 3,	:	ate	7. Titl Amou Under Securi (Instr.	nt of lying	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secun Bene Own Follo Repo Trans (Instr
			Code V	4, and 5) (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

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

Reporting Owners 3

Schatz Jill E P.O. BOX 481 FORT COLLINS, CO 80522

Signatures

/S/ Thomas O. McGimpsey (Attorney-in-Fact)

01/21/2010

**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) These shares are owned directly by 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.
- (2) Includes 26,350 shares of restricted stock units held directly by Douglas S. Schatz, who is a director of the Issuer.
- (3) 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.

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