

[] 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 *													Symb	ool	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
SCHATZ DOUGLAS S					ADVANCED ENERGY INDUSTRIES INC [AEIS]									RIES	X Director X 10% Owner					
(Last) (First) (Middle)					3. Date of Earliest Transaction (MM/DD/YYYY)								/YYYY	7)	X _ Officer (give title below) Other (specify below) Chief Executive Officer					
1625 SHARP POINT DRIVE					4/14/2004															
(Street)				•	4. If Amendment, Date Original Filed (MM/DD/YYYY)								(MM/D	D/YYYY	6. Individual or Joint/Group Filing (Check Applicable Line)					
FORT COLLINS, CO US															_ X _ Form filed by One Reporting Person					
(City) (State) (Zip)															Form filed by More than One Reporting Person					
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1.Title of Security				- Non-L . Trans. Da			Deemed	3. Tran								eficially Owner Amount of Securiti		lly Owned	6.	7. Nature
(Instr. 3)			[-	. Tuno. D]	Execution Date, if any		(Instr. 8)		040	or D	or Disposed of (D (Instr. 3, 4 and 5)) Fo		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		s)	Ownership Form:	of Indirect Beneficial
						,									(Direct (D) or Indirect			Ownership	
								Cod	le	v	Amo	ount	(A) or (D)	r Price					(I) (Instr. 4)	()
Common Stock																			I	By Douglas S. Schatz and Jill E.
														Schat Famil			Schatz Family Trust			
	Tab	le II - Deri	vative S	ecuritie	es B	Bene	eficially	Owne	ed (e.g.	, put	ts, ca	ılls, w	arrant	s, o	options, conve	rtible sec	urities)		
1. Title of Derivate Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3A. Deem Execution Date, if an	Code		Derivative Securities		es Acquired isposed of		6. Date Exe Expiration		ercisable and Date		Securitie Derivati	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	Securities Beneficially Owned Following	10. Ownership Form of Derivative Security: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	de	V	(A)	(I	(D)	Date Exerci	isable	Expiration Date		Title		Amount or Number of Shares		Reported Transaction(s) (Instr. 4)	or Indirect (I) (Instr. 4)	
Employee Stock Option (right to buy)	\$10.032									2/12/2 (1		2/12/	/2008	Comm Stock		25000		25000	D	
Employee Stock Option (right to buy)	\$8.371									4/16/2 (1		4/16/2008		Comm Stock		25000		50000	D	
Employee Stock Option (right to buy)	\$8.371									4/16/2 (1		4/16/	/2008	Comm Stock		25000		50000	D	
Employee Stock Option (right to buy)	\$21.164									7/23/2 (1		7/23/	/2008	Comm Stock		3295		53295	D	
Employee Stock Option (right to buy)	\$19.24									7/23/2 (1		7/23/	/2013	Comm Stock		21705		75000	D	
Employee Stock Option (right to buy)	\$22.52									10/15/	/2004 1)	10/1	5/2013	Comm Stock		25000		100000	D	
Employee Stock Option (right to buy)	\$22.30									2/11/2 (1		2/11/	/2014	Comm Stock		21250		121250	D	
Employee Stock Option (right to buy)	\$20.81	4/14/2004		A			21250			4/14/2 <u>(1</u>		4/14/	/2014	Comm Stock		21250	\$20.81	142500 (2)	D	

Explanation of Responses:

- (1) Stock options dated 02/12/2003, 04/16/2003, 07/23/2003, 10/15/2003, 02/11/2004 and 04/14/2004 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. Schatz has Employee Stock Options (right to buy) for a total of 142,500 shares of Common Stock.

(3) Mr. Schatz owns indirectly, by Douglas S. Schatz & Jill E. Schatz Family Trust 10,657,782 shares of Advanced Energy Industries, Inc. common stock.

Reporting Owners

Reporting Owner Name / Address	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
SCHATZ DOUGLAS S								
1625 SHARP POINT DRIVE	X	X	Chief Executive Officer					
FORT COLLINS, CO US								

Signatures

Michael El-Hillow - Attorney-in-Fact	4/15/2004		
**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 number.