# FORM 4

[] 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 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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1. Name and Address of Reporting Person <sup>*</sup>				2. Issuer Name and Ticker or Trading Symbol							5. Re	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
SPEDDEN ELWOOD				ADVANCED ENERGY INDUSTRIES INC [ AEIS ]							_x_	_X_Director10% Owner						
(Last) (First) (Middle)				3. Date of Earliest Transaction (MM/DD/YYYY)							Officer (give title below)Other (specify below)							
1625 SHARP POINT DRIVE				5/5/2004														
(Street)				4. If Amendment, Date Original Filed (MM/DD/YYYY)							6. Ind	6. Individual or Joint/Group Filing (Check Applicable Line)						
FORT COLLINS, CO US (City) (State) (Zip)												X Form filed by One Reporting Person Form filed by More than One Reporting Person						
		17		Table I.	- Non-Deriv	ative	Securities Acquired,	Disnose	d of or Ben	eficiall	v Owned	1						
1. Title of Security (Instr. 3) 2. Trans.				te 2	2A. Deemed Exe Date, if any				4. Securities A	Securities Acquired (A) or Disposed of nstr. 3, 4 and 5)		(D)	5. Amount of Securities Ber (Instr. 3 and 4)	neficially Owned Following R	wned Following Reported Transaction(s)		6. Ownershij Form:	7. Nature of Indirect
							Code	v	Amount	(/	A) or (D)	Price						Beneficial Ownership t (Instr. 4)
Common Stock														0			D	
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. Cod (Instr. 8) Code		or I (Ins	Number of Derivative Securi Disposed of (D) str. 3, 4 and 5) (A)	ties Acquire (D)	Date Date Es		ble and Expiration	(Instr. 3	and 4)	nderlying Derivative Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect ) (I) (Instr. 4)	Beneficial
Director Stock Option (right to buy)	\$11.05								9/20/1	995 <u>(1)</u>	9/20/2005	Con	nmon Stock	4500		4500	D	
Director Stock Option (right to buy)	\$6.125								12/16/	1996 (2)	12/16/2006	Con	nmon Stock	2500		7000	D	
Director Stock Option (right to buy)	\$29.875								9/22/1	997 (2)	9/22/2007	Con	nmon Stock	2500		9500	D	
Director Stock Option (right to buy)	\$8.25								9/20/1	998 (2)	9/20/2008	Con	umon Stock	2500		12000	D	
Director Stock Option (right to buy)	\$36.9375								9/20/1	999 😩	9/20/2009	Con	nmon Stock	2500		14500	D	
Director Stock Option (right to buy)	\$46.125								9/19/2	:000 (2)	9/19/2010	Con	nmon Stock	2500		17000	D	
Director Stock Option (right to buy)	\$18.08								9/20/2	:001 (2)	9/20/2011	Con	nmon Stock	2500		19500	D	
Director Stock Option (right to buy)	\$8.60								9/20/2	:002 (2)	9/20/2012	Con	nmon Stock	2500		22000	D	
Director Stock Option (right to buy)	\$10.67								5/7/2	003 (3)	5/7/2013	Con	nmon Stock	5000		27000	D	
Director Stock Option (right to buy)	\$14.40	5/5/2004	1	А			5000		5/5/2	004 ( 3)	5/5/2014	Con	nmon Stock	5000	\$14.40	32000 (4)	D	

## Explanation of Responses:

(1) The director stock option granted on September 20, 1995 is immediately exercisable as to 2,500 shares of Common Stock and will vest as to 2,500 shares on each of September 20, 1997 and September 20, 1998.

(2) The director stock options granted on December 26, 1996, September 22, 1997, September 20, 1998, September 20, 2009, September 20, 2001 and September 20, 2002 will vest as to 2,500 shares of Common Stock on the third anniversary of the grant date. (3) The director stock options granted on May 7, 2003 and May 5, 2004 are immediately fully exercisable.

(4) Mr. Spedden has Director Stock Options (right to buy) for a total of 32,000 shares of Common Stock with the above exercise prices and expiration dates.

#### Reporting Owners

Paparting Owner Name / Address	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
SPEDDEN ELWOOD 1625 SHARP POINT DRIVE FORT COLLINS, CO US	x						

#### Signatures

Michael El-Hillow - Attorney-in-Fact	5/6/2004		
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 missiatements 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.

Know all by these presents, that the undersigned hereby constitutes and appoints each of Douglas S. Schatz, Michael El-Hillow, Gary D. Watkins and Catherine L. Kawakami, signing singly, the under signed's true and lawful attorney-in-fact to:

(1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer and/or director of Advanced Energy Industries, Inc. (the "Company"), Forms 3, 4 and 5 in accordance wi th Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder;

(2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4, or 5 and timely file such form with the Uni ted States Securities and Exchange Commission and any stock exchange or similar authority; and

(3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall conta in such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact power and authority to do and perform any and every act and thing whatsoever requisite, necessary or proper to be done in the exe rcise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation , hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this Power of Attorney and d the rights and powers herein granted.

The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the u ndersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934 and the rules thereunder.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4, and 5 with respect to the undersigned's holdings of and transact ions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 14th day of April, 2004.

/s/ Elwood Spedden