ORM 4

Theck this box if no longer subject to Section 16. Form 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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16(a) of the Securities Evolution Act of 1024 or Section 20(b) of the Inv - £ 1040

		Filed pur	suant to Section	16(a) of t	he Securities	Exchange Act of	1934 or S	ection 30(h)	of the Investr	nent Company	y Act of 1940					
1. Name and Address of Reporting Person [*]				2. Issuer Name and Ticker or Trading Symbol						5. Relationsh	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
(Last) (First) (Middle)				ADVANCED ENERGY INDUSTRIES INC [AEIS] 3. Date of Earliest Transaction (MMDD/YYYY)						X_Director	X_Director10% Owner Officer (give title below)Other (specify below)					
1625 SHARP POINT DRIVE (Street)				5/5/2004						6 Individual						
FORT COLLINS, CO US (City) (State) (Zip)				 If Amendment, Date Original Filed (MMDD/YYYY) 						6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
				Table I	l - Non-Derivati	ive Securities Acquir	ed, Dispose	d of, or Benefic	zially Owned							
1.Title of Security (Instr. 3) 2. Trans.			2. Trans. Da	ate	2A. Deemed Execut Date, if any			4. Securities Acqui (Instr. 3, 4 and 5)	Securities Acquired (A) or Disposed of (I istr. 3, 4 and 5)		(Instr. 3 and 4) Own			6. Ownership Form:	7. Natur of Indire Benefici	
						Code	v	Amount	(A) or (D)	Price				Direct (D) or Indirect (I) (Instr. 4)	Ownersh	
Common Stock											26456			D		
1. Title of Derivate Security Instr. 3)	 Conversion or Exercise Price of Derivative Security 	S. Thing, Duc	3A. Deemed Execution Date, if any	4. Trans. Co (Instr. 8)		5. Number of Derivative Se or Disposed of (D) (Instr. 3, 4 and 5) (A)	(D)	Date Date Exercis	sable Expiration Dat	(Instr. 3 and 4)	Amount or Number of Shares	8. Price of Derivative Security (Instr. 5)	 Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4) 	Ownership Form of Derivative Security: Direct (D) or Indirect	Benefic Owners (Instr. 4	
Director Stock Option (right to buy)	\$8.76						(-)	11/30/1994	(1) 11/30/2004	Common Stor	k 4929		4929	D		
Director Stock Option (right to buy)	\$8.76							11/30/1995	(1) 11/30/2005	Common Stor	k 4929		9858	D		
Director Stock Option (right to buy)	\$11.05							11/30/1996	(1) 11/30/2006	Common Stor	k 1643		11501	D		
Director Stock Option (right to buy)	\$15.03							11/30/1997	(1) 11/30/2007	Common Stor	-k 1643		13144	D		
Director Stock Option (right to buy)	\$6.75							10/8/1998	(2) 10/8/2008	Common Stor	k 7500		20644	D		
Director Stock Option (right to buy)	\$34.50							10/8/1999	(3) 10/8/2009	Common Stor	k 2500		23144	D		
Director Stock Option (right to buy)	\$30.625							10/8/2000	(3) 10/8/2010	Common Stor	k 2500		25644	D		
Director Stock Option (right to buy)	\$17.57							10/8/2001	(3) 10/8/2011	Common Stor	k 2500		28144	D		
Director Stock Option (right to buy)	\$6.15							10/8/2002	(3) 10/8/2012	Common Stor	k 2500		30644	D		
			1			1	1	1	(1)	Common Stor	k 5000		2014	D		
Director Stock Option (right to buy)	\$10.67							5/7/2003	(4) 5/7/2013	Common Stor	sk 5000		35644	D		

Explanation of Responses:

(1) Options had been granted as options to purchase common stock of RF Power Products, Inc. Options were assumed by the Issuer and converted into options to purchase Common Stock of the Issuer pursuant to the Issuer's acquisition of RF Power Products as of October 8, 1998. Options are exercisable immediately.

(2) The director stock option granted on October 8, 1998 is immediately exercisable as to 2,500 shares of Common Stock and will vest as to 2,500 shares on each of October 8, 2000 and October 8, 2001.

(3) The director stock options granted on October 8, 1999, October 8, 2000, October 8, 2001 and October 8, 2002 will vest as to 2,500 shares of Common Stock on the third anniversary of the grant date.

(4) The director stock options granted on May 7, 2003 and May 5, 2004 are immediately fully exercisable.

(5) Mr. Starek has Director Stock Options (right to buy) for a total of 40,644 shares of Common Stock with the above exercise prices and expiration dates.

Reporting Owners

Reporting Owner Name / Address	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
STAREK GERALD M								
1625 SHARP POINT DRIVE	X							
FORT COLLINS, CO US								

Signatures

Michael El-Hillow - Attorney-in-Fact 5/6/2004 Date

Signature of Reporting Person

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.

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/ Gerald M. Starek