

FORM 4

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

OMB APPROVAL
OMB Number: 3235-0287
Estimated average burden
hours per response... 0.5

[] 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 or
Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person * GUILMART JAMES G (Last) (First) (Middle) 1625 SHARP POINT DRIVE (Street) FORT COLLINS, CO US (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol ADVANCED ENERGY INDUSTRIES INC [AEIS]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) ____ Director _____ 10% Owner <input checked="" type="checkbox"/> Officer (give title below) _____ Other (specify below) SVP of Customer Operations
3. Date of Earliest Transaction (MM/DD/YYYY) 2/11/2004		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person
4. If Amendment, Date Original Filed (MM/DD/YYYY)		

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Trans. Date	2A. Deemed Execution Date, if any	3. Trans. 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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock								314	D	

Table II - Derivative Securities Beneficially Owned (e.g. , puts, calls, warrants, options, convertible securities)

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. 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		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		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)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V		Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Employee Stock Option (right to buy)	\$36.5625						10/13/2000 (1)	10/13/2009	Common Stock	10000		10000	D	
Employee Stock Option (right to buy)	\$43.6875						1/13/2001 (1)	1/13/2010	Common Stock	2000		12000	D	
Employee Stock Option (right to buy)	\$60.75						7/13/2001 (1)	7/13/2010	Common Stock	25000		37000	D	
Employee Stock Option (right to buy)	\$30.1875						10/11/2001 (1)	10/11/2010	Common Stock	25000		62000	D	
Employee Stock Option (right to buy)	\$26.125						2/7/2002 (1)	2/7/2011	Common Stock	4688		66688	D	
Employee Stock Option (right to buy)	\$28.55						4/11/2002 (1)	4/11/2011	Common Stock	4688		71376	D	
Employee Stock Option (right to buy)	\$36.49						5/24/2002 (3)	5/24/2011	Common Stock	500		71876	D	
Employee Stock Option (right to buy)	\$32.19						7/11/2002 (1)	7/11/2011	Common Stock	4687		76563	D	
Employee Stock Option (right to buy)	\$18.00						10/10/2002 (1)	10/10/2011	Common Stock	4687		81250	D	
Employee Stock Option (right to buy)	\$24.90						2/12/2003 (1)	2/12/2012	Common Stock	10000		91250	D	
Employee Stock Option (right to buy)	\$38.55						4/16/2003 (1)	4/16/2012	Common Stock	10000		101250	D	
Employee Stock Option (right to buy)	\$17.85						7/18/2003 (1)	7/18/2012	Common Stock	10000		111250	D	

Table II - Derivative Securities Beneficially Owned (e.g. , puts, calls, warrants, options, convertible securities)															
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. 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		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		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)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Employee Stock Option (right to buy)	\$7.70							10/17/2003 (1)	10/17/2012	Common Stock	10000		121250	D	
Employee Stock Option (right to buy)	\$9.12							2/12/2004 (1)	2/12/2013	Common Stock	5000		126250	D	
Employee Stock Option (right to buy)	\$7.61							4/16/2004 (1)	4/16/2013	Common Stock	5000		131250	D	
Employee Stock Option (right to buy)	\$19.24							7/23/2004 (1)	7/23/2013	Common Stock	5000		136250	D	
Employee Stock Option (right to buy)	\$22.52							10/15/2004 (1)	10/15/2013	Common Stock	5000		141250	D	
Employee Stock Option (right to buy)	\$22.30	2/11/2004		A		3750		2/11/2005 (1)	2/11/2014	Common Stock	3750	\$22.30	145000 (2)	D	

Explanation of Responses:

- (1) Stock option dated 10/13/1999, 01/13/2000, 07/13/2000, 10/11/2000, 02/07/2001, 04/11/2001, 07/11/2001, 10/10/2001, 02/12/2002, 04/16/2002, 07/18/2002, 10/17/2002, 02/12/2003, 04/16/2003, 07/23/2003, 10/15/2003 and 2/11/2004 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. Guilmart has Employee Stock Options (right to buy) for a total of 145,000 shares of Common Stock.
- (3) Stock option dated May 24, 2001 is fully exercisable 1 year from the date of grant, which was May 24, 2002.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
GUILMART JAMES G 1625 SHARP POINT DRIVE FORT COLLINS, CO US			SVP of Customer Operations	

Signatures

Michael El-Hillow - Attorney-in-Fact

2/13/2004

******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.