

[] 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

Name and Address of Reporting Person *					2.]	2. Issuer Name and Ticker or Trading Symbol							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
GUILMART JAMES G						ADVANCED ENERGY INDUSTRIES INC [AEIS]						Director	Director 10% Owner				
ł .					_	3. Date of Earliest Transaction (MM/DD/YYYY)							X_Officer (g			Other (speci	fy below)
1 <i>(25</i> CHAD)	D DAINT	DDIVE						11	14/200	1			SVP of Custo	mer Ope	rations		
1625 SHAR	(Stre				4.]	If Ar	nendme				led (MM/E	DD/YYYY	6. Individual	or Joint/G	roup Filing	Check Appl	icable Line)
FORT COL	LINS, C	O US						,					_ X _ Form filed l	oy One Repo	_		
(C	City) (Sta	ate) (Zip	0)										1 omi med by	wiore than c	one reporting i	CISOII	
			Table	I - Noi	n-Der	ivat	ive Sec	urities A	cquired	i, D	isposed (of, or Bo	eneficially Own	ed			
<u> </u>					. Date			3. Trans. C (Instr. 8)	o	4. Securities Acqu or Disposed of (D (Instr. 3, 4 and 5)							7. Nature of Indirect Beneficial Ownership
					Code			V Amo		(A) o	r Price				or Indirect ((I) (Instr. 4)	(Instr. 4)	
Common Stock														314		D	
	Tab	le II - Deri	vative	Secur	ities l	Bene	ficially	Owned	(e.g. , _I	outs	s, calls, w	arrants	, options, conve	rtible sec	urities)		
Title of Derivate Security	2. Conversion	3. Trans. Date		A. Deemed 4. Recution Co		5. Number of Derivative			f 6. Date E Expiratio				nd Amount of Underlying		Number of derivative	10. Ownership	11. Nature of Indirect
(Instr. 3)	or Exercise Price of Derivative Security	Bate	Date, if		nstr. 8)		Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)				vate	Derivativ (Instr. 3 a	Security	Security (Instr. 5)	Securities Beneficially Owned Following	Form of Derivative Security: Direct (D)	Beneficial Ownership (Instr. 4)
					Code	V	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares		Reported Transaction(s) (Instr. 4)	or Indirect (I) (Instr. 4)	
Employee Stock Option (right to buy)	\$36.5625								10/13/20	000	10/13/2009	Commo Stock	on 10000		10000	D	
Employee Stock Option (right to buy)	\$43.6875								1/13/200	01	1/13/2010	Commo Stock	on 2000		12000	D	
Employee Stock Option (right to buy)	\$60.75								7/13/200 (1)	01	7/13/2010	Commo Stock	on 25000		37000	D	
Employee Stock Option (right to buy)	\$30.1875								10/11/20	001	10/11/2010	Commo Stock	on 25000		62000	D	
Employee Stock Option (right to buy)	\$26.125								2/7/200 (1)	2	2/7/2011	Commo Stock	on 4688		66688	D	
Employee Stock Option (right to buy)	\$28.55								4/11/200 (1)	02	4/11/2011	Commo Stock	on 4688		71376	D	
Employee Stock Option (right to buy)	\$36.49								5/24/200	02	5/24/2011	Commo Stock	on 500		71876	D	
Employee Stock Option (right to buy)	\$32.19								7/11/200 (1)	02	7/11/2011	Commo Stock	on 4687		76563	D	
Employee Stock Option (right to buy)	\$18.00								10/10/20	002	10/10/2011	Commo Stock	on 4687		81250	D	
Employee Stock Option (right to buy)	\$24.90								2/12/200 (1)	03	2/12/2012	Commo Stock	n 10000		91250	D	
Employee Stock Option (right to buy)	\$38.55								4/16/200 (1)	03	4/16/2012	Commo Stock	n 10000		101250	D	
Employee Stock Option (right to buy)	\$17.85								7/18/200 (1)	03	7/18/2012	Commo Stock	n 10000		111250	D	
	•	•	•	•		•	•	•	•			•	•	•	•	•	•

	Tab	le II - Deri	vative Sec	urities H	Bene	eficially Ov	wned	(<i>e.g.</i> , put	s, calls, w	arrants, o	ptions, conve	ertible sec	eurities)		
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)		Derivative	derivative Securities Beneficially	Derivative Security: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Reported Transaction(s) (Instr. 4)	or Indirect (I) (Instr. 4)	
Employee Stock Option (right to buy)	\$7.70							10/17/2003	10/17/2012	Common Stock	10000		121250	D	
Employee Stock Option (right to buy)	\$9.12							2/12/2004	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	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							2/11/2005 (1)	2/11/2014	Common Stock	3750		145000	D	
Employee Stock Option (right to buy)	\$20.81	4/14/2004		A		3750		4/14/2005 (1)	4/14/2014	Common Stock	3750	\$20.81	148750 (2)	D	

Explanation of Responses:

- (1) Stock options 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, 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. Guilmart has Employee Stock Options (right to buy) for a total of 148,750 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

Paperting Owner Name / Address	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
GUILMART JAMES G								
1625 SHARP POINT DRIVE			SVP of Customer Operations					
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.

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