

[] 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

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

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 *				2. I	Issuer Name and Ticker or Trading Symbol						5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
RHOADES CHARLES S					ADVANCED ENERGY INDUSTRIES INC [AEIS]							Director 10% Owner					
(Last)					3. Date of Earliest Transaction (MM/DD/YYYY)						X Officer (give title below) Other (specify below) SVP and GM of CSI						
1625 SHARI	POINT	DRIVE					4/1	14/20	04								
	(Stre	et)		4. I	f Ar	nendme	nt, Date	Origin	al Fil	led (MM	/DD/YY	YY)	6. Individual o	or Joint/G	roup Filing (Check Appl	icable Line)
FORT COLLINS, CO US (City) (State) (Zip)											X_Form filed by One Reporting Person Form filed by More than One Reporting Person						
		,	Гable I - N	on-Der	ivat	ive Seci	urities A	cquire	ed, D	isposed	of, or	Ben	neficially Owne	ed			
1.Title of Security (Instr. 3) 2. Trans. E				Date 2A. Deemed Execution Date, if any 3. Trans. (Instr. 8) Code		3. Trans. C (Instr. 8)		or Disposed of (D) Foll		Amount of Securities Beneficially Owned ollowing Reported Transaction(s) nstr. 3 and 4)			Ownership Form:	7. Nature of Indirect Beneficial Ownership			
						Code	v	Amou	ınt (A)		ice				or Indirect (I) (Instr. 4)	rect (Instr. 4)	
Common Stock														109		D	
	Tabl	e II - Deri	vative Secu	ırities I	Bene	ficially	Owned					nts,	options, conve	rtible sec	urities)		
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)	le Deri Secu (A) (D)		Number of rivative curities Acquired or Disposed of str. 3, 4 and 5)		Expiration Date		Secur Deriv	rities (Inderlying Derivative Security		9. Number of derivative Securities Beneficially Owned Following	Ownership Form of Derivative Security: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercis		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							10/17/2 (1		10/17/201		nmon ock	30000		30000	D	
Employee Stock Option (right to buy)	\$14.50							12/11/2 (1		12/11/201		nmon ock	10000		40000	D	
Employee Stock Option (right to buy)	\$9.12							2/12/20 (1)		2/12/2013		nmon ock	5000		45000	D	
Employee Stock Option (right to buy)	\$7.61							4/16/20 (1)		4/16/2013		nmon ock	5000		50000	D	
Employee Stock Option (right to buy)	\$19.24							7/23/20		7/23/2013		nmon ock	5000		55000	D	
Employee Stock Option (right to buy)	\$22.52							10/15/2		10/15/201		nmon ock	5000		60000	D	
Employee Stock Option (right to buy)	\$22.30							2/11/20 (1)		2/11/2014		nmon ock	3750		63750	D	
Employee Stock Option (right to buy)	\$20.81	4/14/2004		A		3750		4/14/20 (1)		4/14/2014		nmon ock	3750	\$20.81	67500 (2)	D	

Explanation of Responses:

- (1) Stock options dated 10/17/2002, 12/11/2002, 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. Rhoades additional Employee Stock Options (right to buy) for a total of 67,500 shares of Common Stock.

Reporting Owners	
	T

Reporting Owner Name / Address	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
RHOADES CHARLES S						
1625 SHARP POINT DRIVE			SVP and GM of CSI			
FORT COLLINS, CO US						

Signatures

Mi	chael El-Hillow - Attorney-in-Fact	4/15/2004
	** Signature of Paparting 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.