FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
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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

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 an MCGIM (Last) 1625 SHA	2. Issuer Name and Ticker or Trading Symbol ADVANCED ENERGY INDUSTRIES INC [AEIS] 3. Date of Earliest Transaction (Month/Day/Year) 02/02/2018 4. If Amandment, Date of Original Filed (Manth/Day/Year)										Relationship of Reporting Person heck all applicable) Director X Officer (give title below) EVP Gen Counsel & Couns			10% O Other (below) & Corp Se	wner specify ec				
(Street) FORT CO	OLLINS CC		4. If Amendment, Date of Original Filed (Month/Day/Year)										ial or Joint/Group Filing (Check Applicable) form filed by One Reporting Person filed by More than One Reporting ferson						
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (and 5)				Secui	icially d	Forn (D) o	rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount		(A) or (D)	Price	Repo Trans		(11154		(111341 - 47
Common Stock				02/02/2	02/02/2018				F		868(1)	D	\$69.	69 4	44,354		D	
Common Stock 02/02					018				A		4,822	2 ⁽²⁾ A \$		\$0.0	0 4	49,176		D	
Common Stock			02/05/2	.018				F		1,903	(1) D \$6		\$60	5 4'	47,273(3)		D		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	eemed tion Date, h/Day/Year)	4. Transaction Code (Instr. 8)		5. Number		6. Date Exc Expiration (Month/Da	Date	е	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		mount r	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	y [10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v ((A)		Date Exercisabl		xpiration ate	Title	of	umber f hares					
Performance Units	\$0.00	02/02/2018			A	v	9,645		(4)		(4)		imon ock 9	,645	\$0.00	9,645		D	

Explanation of Responses:

- 1. Payment of tax liability by witholding securities incident to vesting of restricted stock units.
- 2. The employee Restricted Stock units granted 2/2/2018 under the Company's 2018 Long Term Incentive Plan (LTI Plan) will vest in three equal installments beginning on the first anniversary of the grant date.
- 3. Represents 23,014 shares of Restricted Stock units and 6,166 shares of Performance Stock Units and 18,093 shares of common stock.
- 4. These performance share awards were issued under the 2018 LTI Plan at 200% of target and have a 3-year vest period and will vest in all or in part upon achievement of performance metrics. Any awards that have not been vested and released at the end of the 3 year period will be cancelled.

Remarks:

/s/ Thomas O. McGimpsey 02/

** Signature of Reporting Person

 $\underline{02/06/2018}$

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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