

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 * <b>MCGIMPSEY THOMAS O</b>  (Last) (First) (Middle) <b>1625 SHARP POINT DRIVE</b>  (Street) <b>FORT COLLINS, CO 80525</b>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <b>ADVANCED ENERGY INDUSTRIES INC [ AEIS ]</b>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  ____ Director _____ 10% Owner <input checked="" type="checkbox"/> <b>X</b> Officer (give title below) _____ Other (specify below) <b>EVP Interim CFO &amp; Gen Counsel</b>
3. Date of Earliest Transaction (MM/DD/YYYY) <b>8/16/2018</b>		6. Individual or Joint/Group Filing (Check Applicable Line)  ____ <input checked="" type="checkbox"/> Form filed by One Reporting Person ____ 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	8/16/2018		S		8391 (1)	D	\$59.32 (2)	41777 (3)	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				

**Explanation of Responses:**

(1) The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 plan.

(2) The price reported in Column 4 is an average price. These shares sold in multiple transactions at prices ranging from \$58.95 to \$59.78. The reporting person undertakes to provide to Advanced Energy, any security holder of Advanced Energy, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set for the in this footnote.

(3) Represents 11,513 shares of Restricted Stock units and 30,264 shares of common stock.

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
MCGIMPSEY THOMAS O 1625 SHARP POINT DRIVE FORT COLLINS, CO 80525			EVP Interim CFO & Gen Counsel	

Signatures

/s/ Thomas O. McGimpsey

8/20/2018

\*\*Signature of Reporting Person

Date

number.