### FORM 4

☐ Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

☐ Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.

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

## 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. Issuer Name and Ticker or Trading Symbol							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
Donaghey John					ADVANCED ENERGY INDUSTRIES INC [ AEIS ]							Director	,	10%	o Owner	
(Last)	(First) (Middle)				3. Date of Earliest Transaction (MM/DD/YYYY)							X_ Officer (give title below) Other (specify below) EVP, Global Sales				
1595 WYNK0	300			3/1	/20	24										
	(Street	:)		4. ]	[f Am	endme	nt, Date O	rigir	nal File	d (MM/D	D/YYYY)	6. Individual	or Joint/G	roup Filing	(Check Appl	icable Line)
DENVER, CO 80202													X _ Form filed by One Reporting Person Form filed by More than One Reporting Person			
(Cit	y) (State	(Zip)												- Treporting 1		
		T	able I -	Non-Der	ivati	ve Secu	ırities Ac	quir	ed, Dis	sposed o	f, or Be	neficially Owne	ed			
1. Title of Security (Instr. 3) 2. Trans.			Frans. Date	2A. D Execu Date,	tion (Instr. 8)		de	de 4. Securities Acqu or Disposed of (D) (Instr. 3, 4 and 5)		) ` ´	5. Amount of Securit Following Reported (Instr. 3 and 4)			6. Ownership Form: Direct (D) or Indirect	Beneficial Ownership	
							Code	v	Amour	(A) or (D)	Price				(I) (Instr. 4)	(Instr. 4)
Common Stock 3/1/202-				3/1/2024			D		870		<u>(1)</u>			12,465	D	
Common Stock 3/1/202				3/1/2024	t		F		348	D D	\$101.2			12,117 (3)	D	
	Table	e II - Deriv	vative Se	ecurities	Bene	ficially	Owned (	e.g.,	puts,	calls, wa	ırrants,	options, conver	tible secu	ırities)		
1. Title of Derivate Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date	3A. Deem Execution Date, if an			5. Numb Derivati Acquired Disposed (Instr. 3,	ve Securities and d (A) or d of (D)		Date Exercisable Expiration Date		Securities	d Amount of Underlying e Security nd 4)	8. Price of Derivative Security (Instr. 5)		10. Ownership Form of Derivative Security: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
	Security			Code	V	(A)	(D)	Date Exer	e rcisable	Expiration Date	Title	Amount or Number of Shares		Reported Transaction(s) (Instr. 4)	or Indirect	
Restricted Stock Units	\$0	3/1/2024		A		7,8	337		(4)	<u>(4)</u>	Commo Stock	n 7,837	\$0	7,837	D	
Performance Units	\$0	3/1/2024		A	v	7,8	337		<u>(5)</u>	<u>(5)</u>	Commo Stock	n 7,837	\$0	7,837	D	
Phantom Stock	<u>(6)</u>	3/1/2024		A		1	376		<u>(6)</u>	<u>(6)</u>	Commo Stock	n 876	(1)	876	D	

#### **Explanation of Responses:**

- (1) In connection with the 03/01/2024 vesting of previously granted restricted stock units, the reporting person's receipt of 876 shares of common stock was deferred pursuant to the reporting person's election under the Company's deferred compensation plan (the "Plan"), resulting in the reporting person's receipt instead of 876 shares of phantom stock.
- (2) Payment of tax liability by withholding securities incident to vesting of restricted stock units.
- (3) Represents 7,397 shares of unvested restricted units and 4,720 shares of common stock.
- (4) Employee restricted stock units granted 3/1/2024 under the Company's 2024 Long-Term Incentive Plan ("2024 LTI Plan"), which will vest in 3 equal installments beginning on the first anniversary of the grant date.
- (5) These performance share awards were issued pursuant to the 2024 LTI Plan at 100% of target, 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 canceled.
- (6) Each share of phantom stock represents a right to receive one share of common stock or the cash value thereof. Shares of phantom stock become payable in accordance with the reporting person's distribution elections made pursuant to the Plan or upon the reporting person's termination of service, death, or

disability. Subject to certain timing restrictions, the reporting person may transfer some or all of the shares of phantom stock into alternative investments under the terms of the Plan.

#### **Reporting Owners**

Reporting Owner Name / Address	Relationships					
Reporting Owner Name / Address	Director 10% Owner Officer		Officer	Other		
Donaghey John						
1595 WYNKOOP STREET, SUITE 800			EVP, Global Sales			
DENVER, CO 80202						

#### **Signatures**

/s/ Elizabeth K. Vonne - Attorney-in-Fact	3/5/2024		
**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.