

☐ 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
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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

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)					
Marken Greg					Advanced Emissions Solutions, Inc. [ADES]								Director 10% Owner				
(Last) (First) (Middle)				3	3. Date of Earliest Transaction (MM/DD/YYYY)								X_ Officer (give title below) Other (specify below)				
8051 E MAPLEWOOD AVE, STE 210, C/O ADVANCED EMISSIONS SOLUTIONS, INC.					3/23/2023												
(Street)				4	4. If Amendment, Date Original Filed (MM/DD/YYYY)								6. Individual or Joint/Group Filing (Check Applicable Line)				
GREENWOOD VILLAGE, CO 80111													X _ Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City) (State) (Zip)				I	Rule 10b5-1(c) Transaction Indication												
													ade pursuant to itions of Rule 1				en plan
		ı	Table I	- Non-D	eriva	ative Secu	rities A	Acquire	d, Di	ispos	sed o	f, or Ben	eficially Owne	d			
1. Title of Security (Instr. 3)				2. Trans. Da	ate 2A. Deemed Execution Date, if any 3. Trans (Instr. 8) F	5. Amount of Securities Beneficially Owner Following Reported Transaction(s) Instr. 3 and 4)				Beneficial Ownership
							Code	V	Amoı		(A) or (D)	Price				or Indirect (I) (Instr. 4)	(Instr. 4)
				3/23/2023			A		90,8	_	A	\$0	195,790			D	
Common Stock 3/23/20				3/23/2023			F		9,3	79	D	\$1.97			186,411	D	
	Tab	le II - Deri	ivative S	Securitio	s Be	eneficially	Owned	l (<i>e.g.</i> , p	outs,	calls	s, wa	rrants, o	ptions, conver	tible secu	ırities)		
Security Conversion Oate Dee Exercise Exercise			3A. Deemed Execution Date, if a		Derivati		acquired osed of	6. Date Exercisable and Expiration Date				7. Title and Securities U Derivative S (Instr. 3 and	Jnderlying Security	8. Price of Derivative Security (Instr. 5)	Securities Beneficially Owned Following Reported	Ownership Form of Derivative Security: Direct (D) or Indirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisa		xpirati ate	ion	Title	Number of Shares		Transaction(s) (Instr. 4)	(1) (Instr. 4)	
Performance Share Units	<u>(1)</u>	3/23/2023		A		90,871	l	<u>(1)</u>	3/	/10/20	26 (1)	Common Stock	181,742 (2)	\$0	90,871	D	
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Explanation of Responses:

- (1) Each Performance Share Unit ("PSU") represents a contingent right to receive one share of the Company's common stock upon vesting of the PSU, which will occur, if at all, no later than March 10, 2026 subject to the reporting person's continuous service with the Company or its related entities and the achievement of certain pre-established goals to be measured as of December 31, 2025.
- (2) Represents the maximum number of PSUs that will vest, if at all, which is 200% of the target award.

Reporting Owners

Treporting of their									
Danastina Carra Nama / Addusa	Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
Marken Greg									
8051 E MAPLEWOOD AVE, STE 210		CE	CEO						
C/O ADVANCED EMISSIONS SOLUTIONS, INC.			CEO						
GREENWOOD VILLAGE, CO 80111									

Signatures

/s/ Greg P. Marken 3/27/2023

**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.