

Advanced Emissions Solutions, Inc.  
 Form 4/A  
 January 23, 2014

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
 Expires: January 31, 2015  
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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 OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 Amrhein Christine B.

2. Issuer Name and Ticker or Trading Symbol  
 Advanced Emissions Solutions, Inc.  
 [ADES]

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)

(Last) (First) (Middle)  
 9135 S. RIDGELINE BLVD.,  
 SUITE 200, C/O ADA-ES, INC.  
 (Street)

3. Date of Earliest Transaction  
 (Month/Day/Year)  
 01/03/2014

\_\_\_ Director \_\_\_ 10% Owner  
 Officer (give title below) \_\_\_ Other (specify below)  
 General Counsel & VP

HIGHLANDS RANCH, CO 80129

4. If Amendment, Date Original Filed(Month/Day/Year)  
 01/07/2014

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 \_\_\_ Form filed by More than One Reporting Person

(City) (State) (Zip)

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction 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 Ownership (Instr. 4)
Common Stock	01/03/2014		A	1,195 (1) A	\$ 53 (2) 6,577	D	
Common Stock	01/03/2014		F	270 (3) D	\$ 53 (4) 6,307 (5)	D	
Common Stock	01/03/2014		A	171 A	\$ 53 (2) 15,870 (6)	I	By Spouse

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474 (9-02)

displays a currently valid OMB control number.

**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)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction 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 (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Amount or Number of Shares
Performance Share Units	(7)	01/03/2014		A	2,390 (8)	(9) (9)	Common Stock	2,390

## Reporting Owners

### Reporting Owner Name / Address

### Relationships

Director 10% Owner Officer Other

Amrhein Christine B.  
9135 S. RIDGELINE BLVD., SUITE 200  
C/O ADA-ES, INC.  
HIGHLANDS RANCH, CO 80129

General Counsel & VP

## Signatures

Christine B. Amrhein 01/23/2014

\*\*Signature of Reporting Person

Date

## Explanation of Responses:

\* 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).

- (1) Represents Restricted Stock issued pursuant to the Advanced Emissions Solutions, Inc. Amended and Restated 2007 Equity Incentive Plan, as amended (the "2007 Plan"). The Restricted Stock will vest in equal installments on January 2, 2015, January 2, 2016 and January 2, 2017 subject to continuous services with Advanced Emissions Solutions, Inc. or its related entities unless such shares vest sooner pursuant to Section 11 of the 2007 Plan.
- (2) Closing stock price at date of grant.
- (3) Payment of the tax liability by delivery of stock incident to the vesting on January 2, 2014 of 369 shares of Restricted Stock.
- (4) Fair market value of the shares upon vesting is based on closing price of common stock on January 2, 2014.
- (5) Of the amount shown, 798 shares are held in the qualified pension plan account of the reporting person and 3,660 shares were issued pursuant to the programs under the 2007 Plan, are not fully vested and are subject to certain repurchase rights.

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- (6) Of the amount shown, 4,722 shares are held in the qualified pension plan of the reporting person and 608 shares were issued pursuant to the programs under the 2007 Plan, are not fully vested and are subject to certain repurchase rights.
- (7) Each Performance Share Unit represents a contingent right to receive one share of the Company's common stock.
- (8) Represents the maximum number of Performance Share Units that will vest, if at all, which is 200% of the target payout of 3,113 shares.  
Vesting of the Performance Share Units, if at all, will occur on January 2, 2017, subject to continuous service and the achievement of
- (9) certain pre-established goals to be measured as of December 31, 2016, unless such units vest sooner at the target amount pursuant to Section 11 of the 2007 Plan.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.