

Advanced Emissions Solutions, Inc.
 Form 5
 January 27, 2014

FORM 5

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

OMB APPROVAL

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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).
 Form 3 Holdings Reported Form 4 Transactions Reported

ANNUAL 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

1. Name and Address of Reporting Person *
MATTISON GRAHAM O

(Last) (First) (Middle)

C/O ADA-ES, INC., 9135 S.
 RIDGELINE BLVD., SUITE 200

(Street)

HIGHLANDS
 RANCH, CO 80129

(City) (State) (Zip)

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

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)
 12/31/2013

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director 10% Owner
 Officer (give title below) Other (specify below)
 VP Investor Relations

6. Individual or Joint/Group Reporting

(check applicable line)

Form Filed by One Reporting Person
 Form Filed by More than One Reporting Person

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 at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|--|--|-----------------------------------|
| Common Stock | | | | (A) or (D) Price | 4,318 (1) | D | |

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

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.

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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| 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 | Â | Â | Â | Â | Â (A) Â (D) | Â (3) Â (3) | Common Stock | 3,116 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|-------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| MATTISON GRAHAM O C/O ADA-ES, INC. 9135 S. RIDGELINE BLVD., SUITE 200 HIGHLANDS RANCH, CO 80129 | Â | Â | Â VP Investor Relations | Â |

Signatures

Graham O. Mattison
Date: 01/27/2014

**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) Of the amount shown, 1,558 shares were issued pursuant to the programs under the 2007 Plan, are not fully vested and are subject to certain repurchase rights.
 - (2) Each Performance Share Unit represents a contingent right to receive one share of the Company's common stock
 - (3) Vesting of the Performance Share Units, if at all, will occur on January 2, 2016, subject to continuous service and the achievement of certain pre-established goals to be measured as of December 31, 2015, 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 provided 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.