FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| OMB APPROVAL | | | | | | | | | |
|--------------------------|-----------|--|--|--|--|--|--|--|--|
| OMB Number: | 3235-0287 | | | | | | | | |
| Estimated average burden | | | | | | | | | |
| hours per response: | | | | | | | | | |

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

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* EAVES JOHN W | | | | ARC | 2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ARCH] | | | | | | | | 5. Relationship of Reporting Person(s) to Issue (Check all applicable) X Director 10% Owner | | | | | | |
|--|--|-----------------|------|-----|--|---|--|--|--------------------|-------|---|----------------------------|--|--|----------------|---|---|--|--|
| (Last) | (Fi | First) (Middle) | | | | 3. Date of Earliest Transaction (Month/Day/Year) 11/30/2017 | | | | | | | | X Office below | , | Other (below) | specify | | |
| ONE CITYPLACE DRIVE | | | | | | | | | | | | | CEO | | | | | | |
| (Street) | Street) | | | | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | 6. Individual or Joint/Group Filing (Check Applicable Line) | | | | | |
| ST. LOU | ST. LOUIS MO 63141 | | | | | | | | | | | | | X Form filed by One Reporting Person | | | | | |
| (City) | (SI | tate) (| Zip) | | | | | | | | | | | 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. Transacti Date (Month/Day) | | | | | Execution Date, | | | Transaction Dispose Code (Instr. and 5) | | | rities Acq ed Of (D) (| uired (A) Instr. 3, 4 | Secu Bene Owne | icially d | For (D) | m: Direct or rect (I) | 7. Nature of Indirect Beneficial Ownership | | |
| | | | | | | | | Code | v | Amoun | t (A) | or Price | | | ed ction(s) | | (Instr. 4) | | |
| | 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) | le of 2. 3. Transaction 3A. Deemed Execution Date Execution Date, if any | | | | Fransaction of Code (Instr. Derivative | | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | | 8. Price of Derivativ Security (Instr. 5) | 9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4) | ly | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | Beneficial Ownership | | |
| | | | | | Code | v | (A) | (D) | Date Exercisabl | | opiration | Title | Amount or Number of Shares | | | | | | |
| Restricted Stock Units | (1) | 11/30/2017 | | | A | | 22,600 | | (2) | | (2) | Class A Common Stock | 22,600 | \$0.00 | 22,600 | | D | | |
| Restricted Stock Units | (1) | 11/30/2017 | | | A | | 22,600 | | (3) | 11 | /30/2020 | Class A Common Stock | 22,600 | \$0.00 | 22,600 | | D | | |

Explanation of Responses:

- 1. Each restricted stock unit represents a contingent right to receive one share of Class A Common Stock of Arch Coal, Inc.
- $2. \ \ The \ restricted stock units vest on the third anniversary of the grant date.$
- 3. The restricted stock units vest on November 30, 2020, based on the volume weighted average price of a share over any period of 45 consecutive days ("45 Day VWAP") during the three-year performance period.

Remarks:

/s/ Rosemary L. Klein, Attorney-in-Fact

12/04/2017

** 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 Number.