Instruction 1(b).

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP | OMB N |
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| OMB APPROVAL | | | | | | | | |
|--------------------------|-----------|--|--|--|--|--|--|--|
| OMB Number: | 3235-0287 | | | | | | | |
| Estimated average burden | | | | | | | | |
| hours per response: | 0.5 | | | | | | | |

| 1. Name and Address of Reporting Person* Wold Peter I | | | | | 2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI] | | | | | | | | Relationship neck all appl X Direc | , |) Perso | on(s) to Issu 10% Ow | | |
|--|--|--|--|----------------------------------|--|-------|--|--|-----|------------------|--|--|---|--|---------|--|---|--|
| (Last) (First) (Middle) ONE CITYPLACE DRIVE | | | | | 3. Date of Earliest Transaction (Month/Day/Year) 01/08/2016 | | | | | | | | Office below | r (give title) | | Other (s below) | pecify | |
| SUITE 300 | | | | 4. | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | | 6. Individual or Joint/Group Filing (Check Applicable Line) | | | | | |
| (Street) ST. LOU | IS M | 0 | 63141 | | | | | | | | Lir | X Form | | | | | | |
| (City) | (Si | ate) | (Zip) | | | | | | | | | | | | | | | |
| | | Tab | le I - Non-D | erivativ | e Sec | curit | ies Ac | quired, D | isp | osed o | f, or Be | neficia | lly Owne | d | | | | |
| Date | | | | Transactior te onth/Day/Yo | Execution Da | | ion Date, | Code (Instr. | | | | | Benefic Owned | es ially Following | Form: | Direct Condinect Extr. 4) | 7. Nature of Indirect Beneficial Ownership | |
| | | | | | | | | Code | , | Amount | (A) oi (D) | Price | Transa | Reported Transaction(s) (Instr. 3 and 4) | | | 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) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date if any (Month/Day/Yea | Code | ansaction ode (Instr. | | umber vative urities uired or oosed o) (Instr. | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | | 7. Title and Amc of Securities Underlying Derivative Secu (Instr. 3 and 4) | | 8. Price of Derivative 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 t (Instr. 4) | |
| | | | | Code | v | (A) | (D) | Date Exercisable | | xpiration ate | Title | Amount or Number of Shares | | | | | | |
| Phantom Stock | (1) | 01/08/2016 | | М | | | 15,836 | (1) | | (2) | Common Stock | 15,836 | \$0.83 | 0 | | D | | |

Explanation of Responses:

- 1. Each share of phantom stock entitled the reporting person to receive the cash value of one share of common stock.
- 2. The phantom stock does not expire.

Remarks:

/s/ Robert G. Jones, Attorney-

01/12/2016

in-Fact

** 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.