| SEC Form 4 |  |
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1. Titl

ST. LOUIS

## FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| Check this box if no longer subject to |
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| Section 16. Form 4 or Form 5           |
| obligations may continue. See          |
| Instruction 1(b).                      |

MO

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### STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

|                        | JVAL      |
|------------------------|-----------|
| OMB Number:            | 3235-0287 |
| Estimated average burd | len       |
| hours per response:    | 0.5       |

Form filed by One Reporting Person

7. Nature

of Indirect

Beneficial Ownership (Instr. 4)

X

| ame and Address of Reporting Person*                               | Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 | 4   |
|--|--|---|
|  | or Section 30(h) of the Investment Company Act of 1940                 |   |
| 1. Name and Address of Reporting Person $^{*}$ <u>Taylor Wes M</u> | 2. Issuer Name and Ticker or Trading Symbol<br>ARCH COAL INC [ ACI ]   | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) |
| <u>14y101 7765 171</u>   |  | X Director 10% Owner  |
| (Last) (First) (Middle) ONE CITYPLACE DRIVE                        | 3. Date of Earliest Transaction (Month/Day/Year)<br>06/29/2012         | Officer (give title Other (specify below) below)                        |
| ,  | 4. If Amendment, Date of Original Filed (Month/Day/Year)               | 6. Individual or Joint/Group Filing (Check Applicab                     |

|                                 | 100     |              |  |   |              |      |                                    |               | Form filed by Mo<br>Person | re than One Rep   | oorting   |   |
|---------------------------------|---------|--------------|--|---|--------------|------|------------------------------------|---------------|----------------------------|---|---|---|
| (City)                          | (State) | (Zip)        | (Zip)                                      |   |              |      |                                    |               |                            |   |   |   |
|                                 |         | Table I - No | n-Derivative S                             | ecurities Acq   | uired,       | Disp | oosed of,                          | or Ben        | eficially                  | Owned   |   |   |
| 1. Title of Security (Instr. 3) |         |              | 2. Transaction<br>Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) | Code (Instr. |      | 4. Securities<br>Disposed Of<br>5) |               |                            | 5. Amount of<br>Securities<br>Beneficially<br>Owned Following<br>Reported | 6. Ownership<br>Form: Direct<br>(D) or Indirect<br>(I) (Instr. 4) | 7. Na<br>of Ind<br>Bene<br>Own<br>(Inst |
|                                 |         |              |  |   | Code         | v    | Amount                             | (A) or<br>(D) | Price                      | Transaction(s)<br>(Instr. 3 and 4)  |   |   |

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

|   | (orgi, paro, variatio, optiono, contentino coountico)                 |  |   |                              |   |       |     |  |                    |  |  |   |  |  |  |
|---|---|--|---|------------------------------|---|-------|-----|--|--------------------|--|--|---|--|--|--|
| 1. Title of<br>Derivative<br>Security<br>(Instr. 3) | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 3. Transaction<br>Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) | 4.<br>Transa<br>Code (<br>8) |   | of E  |     | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |                    | 7. Title and<br>Amount of<br>Securities<br>Underlying<br>Derivative Security<br>(Instr. 3 and 4) |  | 8. Price of<br>Derivative<br>Security<br>(Instr. 5) | 9. Number of<br>derivative<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s)<br>(Instr. 4) | 10.<br>Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | 11. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|   |   |  |   | Code                         | v | (A)   | (D) | Date<br>Exercisable  | Expiration<br>Date | Title  | Amount<br>or<br>Number<br>of<br>Shares |   |  |  |  |
| Phantom<br>Stock                                    | (1)   | 06/29/2012                                 |   | Α                            |   | 2,177 |     | (2)  | (2)                | Common<br>Stock  | 2,177                                  | \$6.89  | 23,662   | D  |  |

#### Explanation of Responses:

1. Each share of phantom stock represents a right to receive the value in cash of one share of Arch Coal, Inc. common stock. The shares of phantom stock are held by the director through the Arch Coal, Inc. Deferred Compensation Plan for Non-Employee Directors (the "Plan") and represent past compensation that the director elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock and/or dividends attributable to such deferred amounts.

2. Shares of phantom stock are payable in cash following termination of the director's service as a director of Arch Coal, Inc. The director may transfer amounts held in the phantom stock account into an alternative investment account at any time.

#### **Remarks:**

## /s/ Jon S. Ploetz, Attorney-in-

07/02/2012

\*\* Signature of Reporting Person

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.

Fact

Date