Taylor Wes M Form 4 October 02, 2009

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

Check this box if no longer subject to Section 16.

Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 5 obligations may continue. See Instruction 1(b).

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 * Taylor Wes M

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

OMB

Number:

Expires:

response...

Estimated average

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OMB APPROVAL

3235-0287

January 31,

2005

0.5

Issuer

(First) (Last)

(Middle)

ARCH COAL INC [ACI]

(Check all applicable)

ONE CITYPLACE DRIVE

3. Date of Earliest Transaction

(Month/Day/Year)

X_ Director 10% Owner Officer (give title Other (specify below)

09/30/2009

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Applicable Line)

Filed(Month/Day/Year)

X 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

ST. LOUIS, MO 63141

(Instr. 3)

(City) (State) (Zip) 1.Title of 2. Transaction Date 2A. Deemed Security

(Street)

4. Securities (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Code Disposed of (D) (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) 5. Amount of 6. Ownership 7. Nature of Securities Form: Direct Indirect Beneficially (D) or Indirect Beneficial Owned Ownership Following (Instr. 4) (Instr. 4)

Reported (A) Transaction(s) or (Instr. 3 and 4)

Code V Amount (D) Price

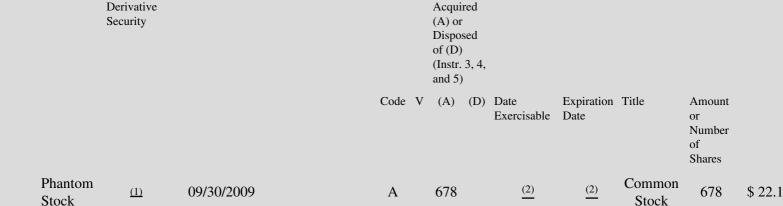
Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form 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 3. Transaction Date 3A. Deemed 5. Number 6. Date Exercisable and 7. Title and Amount of 8. Price 4. Derivative Conversion (Month/Day/Year) Execution Date, if Transactionof **Expiration Date Underlying Securities** Derivati Security or Exercise Code Derivative (Month/Day/Year) (Instr. 3 and 4) Security (Instr. 3) Price of (Month/Day/Year) (Instr. 8) Securities (Instr. 5)

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Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--------------------------------|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| Taylor Wes M | | | | |
| ONE CITYPLACE DRIVE | X | | | |
| ST. LOUIS, MO 63141 | | | | |

Signatures

/s/ Gregory A. Billhartz,
Attorney-in-Fact

**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).
- 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.

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.

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