Taylor Wes M Form 4 October 05, 2010

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

Check this box if no longer subject to Section 16.

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

Form 4 or Form 5 obligations may continue. See Instruction

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(b).

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 Issuer

(Check all applicable)

10% Owner

OMB

Number:

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OMB APPROVAL

3235-0287

January 31,

2005

0.5

ARCH COAL INC [ACI]

(First) (Last)

3. Date of Earliest Transaction

(Month/Day/Year)

Filed(Month/Day/Year)

ONE CITYPLACE DRIVE

(Middle)

10/01/2010

4. If Amendment, Date Original

Officer (give title Other (specify below)

X_ Director

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

ST. LOUIS, MO 63141

(City) (State) (Zip)

(Street)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of 2. Transaction Date 2A. Deemed Security (Instr. 3)

(Month/Day/Year) Execution Date, if (Month/Day/Year)

4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5) 5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (Instr. 4) (Instr. 4)

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

Code V Amount (D) Price

(A)

or

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 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 Derivative Conversion Security or Exercise (Instr. 3) Price of

3. Transaction Date 3A. Deemed (Month/Day/Year) Execution Date, if

(Month/Day/Year)

4. Transactionof Code Derivative (Instr. 8) Securities

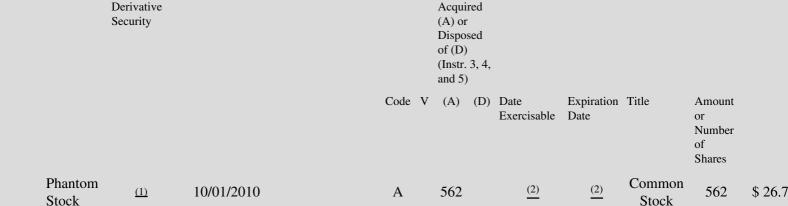
5. Number 6. Date Exercisable and **Expiration Date** (Month/Day/Year)

7. Title and Amount of 8. Price **Underlying Securities** (Instr. 3 and 4)

(9-02)

Derivati Security (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/ Jon S. Ploetz, 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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