ARCH COAL INC Form 4 October 02, 2009

OMB APPROVAL

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

OMB 3235-0287 Number:

if no longer subject to Section 16.

Check this box

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

January 31, Expires: 2005 Estimated average

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

SECURITIES

burden hours per response... 0.5

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

BOYD JAMES R

Symbol

(Check all applicable)

(First) (Last)

3. Date of Earliest Transaction

ARCH COAL INC [ACI]

X_ Director 10% Owner

ONECITYPLACE DRIVE

(Street)

(State)

(Month/Day/Year)

Officer (give title Other (specify below)

09/30/2009

(Middle)

(Zip)

6. Individual or Joint/Group Filing(Check

4. If Amendment, Date Original

Applicable Line) _X_ Form filed by One Reporting Person

Filed(Month/Day/Year)

Form filed by More than One Reporting Person

ST. LOUIS, MO 63141

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

1.Title of Security (Instr. 3)

(City)

2. Transaction Date 2A. Deemed (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)

(9-02)

(A) or

Reported Transaction(s) (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 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 Transaction Derivative **Expiration Date Underlying Securities** Deriva Security or Exercise Code Securities (Month/Day/Year) (Instr. 3 and 4) Securi (Instr. 3) Price of (Month/Day/Year) (Instr. 8) Acquired (Instr.

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Derivative (A) or Security Disposed of (D) (Instr. 3, 4, and 5) Code V (A) (D) Date **Expiration Title** Amount Exercisable Date or Number of Shares Phantom Common (2) (2) (1) 09/30/2009 2,033 2,033 \$ 22 Α Stock Stock

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

BOYD JAMES R

ONECITYPLACE 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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