ARCH COAL INC Form 4 October 05, 2010

OMB APPROVAL

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

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16.

January 31, Expires: 2005

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

Estimated average burden hours per response... 0.5

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

BOYD JAMES R

ARCH COAL INC [ACI]

(Check all applicable)

(First) (Middle) (Last)

3. Date of Earliest Transaction

(Month/Day/Year) 10/01/2010

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

6. Individual or Joint/Group Filing(Check

ONE CITYPLACE DRIVE

4. If Amendment, Date Original

(Instr. 8)

Applicable Line)

(Street) Filed(Month/Day/Year)

(Month/Day/Year)

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

Person

ST. LOUIS, MO 63141

Security

(Instr. 3)

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

4. Securities (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Code Disposed of (D)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 5. Amount of 6. Ownership 7. Nature of Securities Form: Direct Indirect Beneficially (D) or Indirect Beneficial Owned Ownership

(Instr. 4)

(Instr. 4)

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

(Instr. 3, 4 and 5)

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	2.	3. Transaction Date	3A. Deemed	4.	5. Number	6. Date Exercisable and	7. Title and Amount of	8. Pric
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onof Derivative	Expiration Date	Underlying Securities	Deriva
Security	or Exercise		any	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) 10/01/2010 1,592 1,592 \$ 26 Α Stock Stock

Reporting Owners

Reporting Owner Name / Address	Relationships				
· · · · · · · · · · · · · · · · · · ·	Director	10% Owner	Officer	Other	
BOYD JAMES R					
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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