Freudenthal David D. Form 4 April 01, 2011

FORM 4

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

Check this box if no longer

subject to Section 16. Form 4 or

Form 5

obligations may continue. See Instruction 1(b).

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

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 * Freudenthal David D.

2. Issuer Name and Ticker or Trading Symbol

ARCH COAL INC [ACI]

(First) (Middle) (Last)

3. Date of Earliest Transaction

(Month/Day/Year) 03/31/2011

ONE CITYPLACE DRIVE, SUITE 300

(State)

(Zip)

(Street) 4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)

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

(I)

(Instr. 4)

6. Ownership

Form: Direct

5. Relationship of Reporting Person(s) to

(Check all applicable)

10% Owner

Other (specify

7. Nature of

Ownership

(Instr. 4)

Indirect

(D) or Indirect Beneficial

OMB APPROVAL

3235-0287

January 31,

2005

0.5

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Number:

Expires:

response...

Estimated average

burden hours per

5. Amount of

Securities

Beneficially

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

Issuer

below)

X_ Director

Officer (give title

ST. LOUIS, MO 63141

(City)

(Instr. 3)

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year)

3. Execution Date, if Code

TransactionAcquired (A) or Disposed of (D) (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5)

Owned Following Reported (A) Transaction(s) or (Instr. 3 and 4) Code V Amount (D) Price

4. Securities

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

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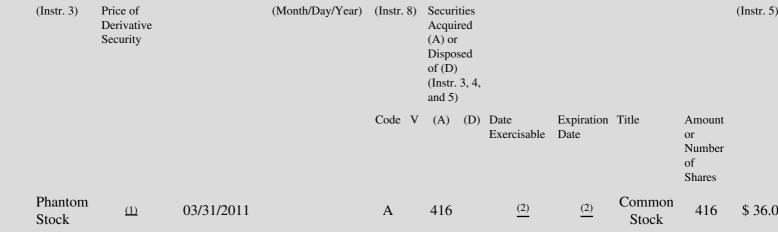
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of 3. Transaction Date 3A. Deemed Derivative Conversion (Month/Day/Year) Execution Date, if Security or Exercise any

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

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

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Reporting Owners

Reporting Owner Name / Address	Relationships			
• 0	Director	10% Owner	Officer	Other
Freudenthal David D. ONE CITYPLACE DRIVE SUITE 300 ST. LOUIS, MO 63141	X			

Signatures

**Signature of Reporting Person

/s/ Jon S. Ploetz, Attorney-in-Fact 04/01/2011

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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