Freudenthal David D. Form 4 December 18, 2012

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Check this box if no longer

subject to Section 16.

Form 4 or Form 5 obligations

may continue. See Instruction 1(b).

**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] 3. Date of Earliest Transaction

(First) (Middle) (Last)

(Month/Day/Year) 12/14/2012

ONE CITYPLACE DRIVE, SUITE 300

(Street)

4. If Amendment, Date Original

Filed(Month/Day/Year)

ST. LOUIS, MO 63141

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

Beneficially

Owned

Following

Reported

Transaction(s)

(Instr. 3 and 4)

1.Title of Security (Instr. 3)

(City)

2. Transaction Date 2A. Deemed (Month/Day/Year)

(State)

Execution Date, if (Month/Day/Year)

(Zip)

3. 4. Securities TransactionAcquired (A) or Code (Instr. 8)

Disposed of (D) (Instr. 3, 4 and 5)

(A)

or Code V Amount (D) Price 5. Relationship of Reporting Person(s) to

Issuer

(Check all applicable)

**OMB** 

Number:

Expires:

response...

Estimated average

burden hours per

**OMB APPROVAL** 

3235-0287

January 31,

2005

0.5

X\_ Director 10% Owner Officer (give title Other (specify below)

6. Individual or Joint/Group Filing(Check

Applicable Line) \_X\_ Form filed by One Reporting Person Form filed by More than One Reporting

5. Amount of 6. Ownership 7. Nature of Securities

Form: Direct Indirect (D) or Indirect Beneficial (I) Ownership

(Instr. 4) (Instr. 4)

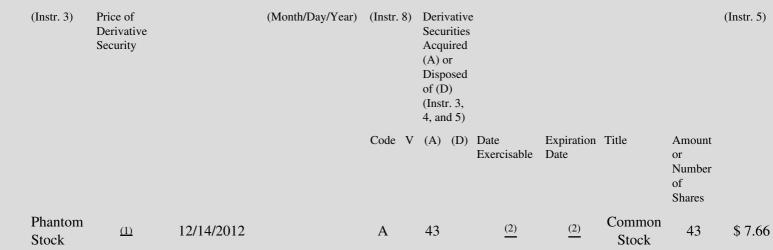
Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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. 6. Date Exercisable and 7. Title and Amount of 8. Price of Derivative Conversion (Month/Day/Year) Execution Date, if TransactionNumber **Expiration Date Underlying Securities** Derivative Security or Exercise any Code of (Month/Day/Year) (Instr. 3 and 4) Security

### Edgar Filing: Freudenthal David D. - Form 4



# **Reporting Owners**

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

# **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"). The shares of phantom stock acquired by the director represent dividends attributable to amounts that the director elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock.
- (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 certain portions of 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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