Strobel Jeffrey W. Form 4 April 04, 2013

FORM 4

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

Check this box if no longer subject to

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES** Section 16. Form 4 or

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

Form 5

(Print or Type Responses)

1. Name and Address of Reporting Person *

Strobel Jeffrey W.

2. Issuer Name and Ticker or Trading Symbol

ARCH COAL INC [ACI]

(First) (Middle) (Last)

3. Date of Earliest Transaction (Month/Day/Year) 04/03/2013

ONE CITYPLACE DRIVE

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

ST. LOUIS, MO 63141

2. Transaction Date 2A. Deemed

5. Relationship of Reporting Person(s) to

Issuer

(Check all applicable)

OMB

Number:

Expires:

response...

Estimated average

burden hours per

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

below)

Vice Pres, Bus Dev & Strategy

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

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

Person

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

1. Title of

Security

(Instr. 3)

(City) (State)

(Month/Day/Year)

(Zip)

Execution Date, if

(Month/Day/Year)

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

(Instr. 3, 4 and 5)

5. Amount of Securities Beneficially Owned Following Reported

Transaction(s)

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

OMB APPROVAL

3235-0287

January 31,

2005

0.5

(I) (Instr. 4) (Instr. 4)

(Instr. 3 and 4) Code V Amount (D) Price

(A)

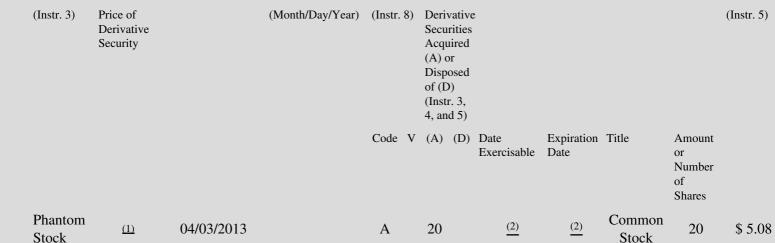
Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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

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Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Strobel Jeffrey W.
ONE CITYPLACE DRIVE
ST. LOUIS, MO 63141

Vice Pres, Bus Dev & Strategy

Signatures

/s/ Jon S. Ploetz, Attorney-in-Fact 04/04/2013

**Signature of Reporting Person Dat

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 Executive Officer through the Arch Coal, Inc. Deferred Compensation Plan (the "Plan") and represent past

- (1) compensation, the vested portion of restricted stock awards and/or payouts under other incentive compensation arrangements that the Executive Officer elected to defer under the Plan into a hypothetical investment in shares of Arch Coal Common stock and/or dividends paid with respect to such deferral amounts.
- (2) Shares of phantom stock are payable in cash on the date or dates elected by the executive officer, subject to the terms of the Plan. The executive officer may transfer any and all 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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