

Strobel Jeffrey W.
Form 4
December 11, 2012

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

OMB APPROVAL

OMB
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(Print or Type Responses)

1. Name and Address of Reporting Person *
Strobel Jeffrey W.

(Last) (First) (Middle)

ONE CITYPLACE DRIVE

(Street)

ST. LOUIS, MO 63141

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading
Symbol

ARCH COAL INC [ACI]

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

01/11/2012

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

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

____ Director ____ 10% Owner
__X__ Officer (give title below) ____ 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)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(D)	Price

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

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SEC 1474
(9-02)

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

1. Title of Derivative Security	2. Conversion or Exercise	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any	4. Transaction Code	5. Number of Derivative	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security
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(Instr. 3)	Price of Derivative Security	(Month/Day/Year)	(Instr. 8)		Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Date	Expiration Date	Title	Amount or Number of Shares	(Instr. 5)
			Code	V		Exercisable				
Phantom Stock	<u>(1)</u>	01/11/2012	A		7	<u>(2)</u>	<u>(2)</u>	Common Stock	7	\$ 15.0
Phantom Stock	<u>(1)</u>	01/25/2012	A		7	<u>(2)</u>	<u>(2)</u>	Common Stock	7	\$ 14.5
Phantom Stock	<u>(1)</u>	02/08/2012	A		7	<u>(2)</u>	<u>(2)</u>	Common Stock	7	\$ 15.1
Phantom Stock	<u>(1)</u>	02/22/2012	A		7	<u>(2)</u>	<u>(2)</u>	Common Stock	7	\$ 13.9
Phantom Stock	<u>(1)</u>	03/07/2012	A		9	<u>(2)</u>	<u>(2)</u>	Common Stock	9	\$ 11.8
Phantom Stock	<u>(1)</u>	03/15/2012	A		0.25	<u>(2)</u>	<u>(2)</u>	Common Stock	0.25	\$ 12.3
Phantom Stock	<u>(1)</u>	03/21/2012	A		9	<u>(2)</u>	<u>(2)</u>	Common Stock	9	\$ 12.0
Phantom Stock	<u>(1)</u>	04/04/2012	A		10	<u>(2)</u>	<u>(2)</u>	Common Stock	10	\$ 10.3
Phantom Stock	<u>(1)</u>	04/18/2012	A		11	<u>(2)</u>	<u>(2)</u>	Common Stock	11	\$ 9.8
Phantom Stock	<u>(1)</u>	05/02/2012	A		12	<u>(2)</u>	<u>(2)</u>	Common Stock	12	\$ 8.5
Phantom Stock	<u>(1)</u>	05/16/2012	A		14	<u>(2)</u>	<u>(2)</u>	Common Stock	14	\$ 7.6
Phantom Stock	<u>(1)</u>	05/30/2012	A		15	<u>(2)</u>	<u>(2)</u>	Common Stock	15	\$ 6.9
Phantom Stock	<u>(1)</u>	06/13/2012	A		18	<u>(2)</u>	<u>(2)</u>	Common Stock	18	\$ 5.7
Phantom Stock	<u>(1)</u>	06/15/2012	A		0.53	<u>(2)</u>	<u>(2)</u>	Common Stock	0.53	\$ 6.0
Phantom Stock	<u>(1)</u>	06/27/2012	A		17	<u>(2)</u>	<u>(2)</u>	Common Stock	17	\$ 6.0
Phantom Stock	<u>(1)</u>	07/11/2012	A		17	<u>(2)</u>	<u>(2)</u>	Common Stock	17	\$ 6.1

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Phantom Stock	<u>(1)</u>	07/25/2012	A	20	<u>(2)</u>	<u>(2)</u>	Common Stock	20	\$ 5.3
Phantom Stock	<u>(1)</u>	08/08/2012	A	15	<u>(2)</u>	<u>(2)</u>	Common Stock	15	\$ 6.9
Phantom Stock	<u>(1)</u>	08/22/2012	A	14	<u>(2)</u>	<u>(2)</u>	Common Stock	14	\$ 7.3
Phantom Stock	<u>(1)</u>	09/05/2012	A	17	<u>(2)</u>	<u>(2)</u>	Common Stock	17	\$ 5.9
Phantom Stock	<u>(1)</u>	09/14/2012	A	0.79	<u>(2)</u>	<u>(2)</u>	Common Stock	0.79	\$ 7.1
Phantom Stock	<u>(1)</u>	09/19/2012	A	14	<u>(2)</u>	<u>(2)</u>	Common Stock	14	\$ 7.3
Phantom Stock	<u>(1)</u>	10/03/2012	A	17	<u>(2)</u>	<u>(2)</u>	Common Stock	17	\$ 6.2
Phantom Stock	<u>(1)</u>	10/17/2012	A	13	<u>(2)</u>	<u>(2)</u>	Common Stock	13	\$ 8.1

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

12/11/2012

__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 Executive Officer through the Arch Coal, Inc. Deferred Compensation Plan (the "Plan") and represent past 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.
- (1)
 - (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.

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