JENNINGS BRIAN J

Form 4

December 17, 2010

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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response...

if no longer subject to Section 16. Form 4 or Form 5

Check this box

obligations may continue.

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).

(Last)

1.Title of

Security

(Instr. 3)

(Print or Type Responses)

See Instruction

1. Name and Address of Reporting Person * JENNINGS BRIAN J

(First)

(Street)

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

(Middle)

2. Transaction Date 2A. Deemed

ARCH COAL INC [ACI] 3. Date of Earliest Transaction

(Month/Day/Year)

12/15/2010

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

(Check all applicable)

below)

ONE CITYPLACE DRIVE

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

(Instr. 4)

Filed(Month/Day/Year)

Code

(Instr. 8)

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

ST. LOUIS, MO 63141

(City) (State) (Zip)

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

5. Amount of Securities Beneficially Owned

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

(Instr. 4)

(A) or

Following Reported Transaction(s)

(Instr. 3 and 4)

Code V Amount (D) Price

Disposed of (D)

(Instr. 3, 4 and 5)

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

(Month/Day/Year)

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 Derivative		3. Transaction Date (Month/Day/Year)		4. Transactio	5. orNumber	6. Date Exercisable and Expiration Date	7. Title and Amount of Underlying Securities	
Security (Instr. 3)	or Exercise Price of		any (Month/Day/Year)	Code (Instr. 8)	of Derivative	(Month/Day/Year)	(Instr. 3 and 4)	Security (Instr. 5)

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Securities

	curity				Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)						
			Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Phantom Stock	<u>(1)</u>	12/15/2010	A		77		(2)	(2)	Common Stock	77	\$ 31.9

Reporting Owners

Reporting Owner Name / Address	Relationships						
• 0	Director	10% Owner	Officer	Other			
JENNINGS BRIAN J ONE CITYPLACE DRIVE 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") 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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