POTTER ROBERT G

Form 4 June 16, 2011

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

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response...

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

obligations

may continue.

See Instruction

Check this box

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)

1. Name and Address of Reporting Person * POTTER ROBERT G

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

ARCH COAL INC [ACI]

(Middle)

(Check all applicable)

(First)

(Street)

ONECITYPLACE DRIVE

3. Date of Earliest Transaction

(Month/Day/Year)

X_ Director Officer (give title below)

10% Owner Other (specify

06/15/2011

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

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) 2. Transaction Date 2A. Deemed

4. Securities (Month/Day/Year) Execution Date, if TransactionAcquired (A) or 5. Amount of Securities Beneficially

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

Owned Following Reported

(Instr. 4)

Ownership (Instr. 4)

SEC 1474

(9-02)

(A)

Transaction(s) (Instr. 3 and 4)

Code V Amount (D) Price

Disposed of (D)

(Instr. 3, 4 and 5)

or

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

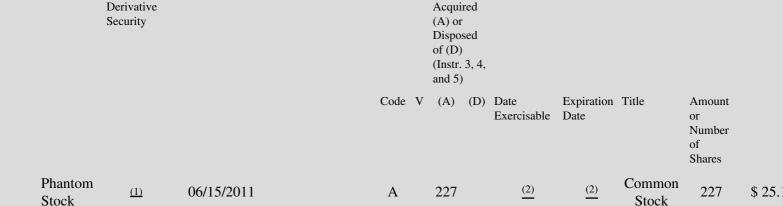
(Month/Day/Year)

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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	2.	3. Transaction Date	3A. Deemed	4.	5. Number	6. Date Exercisable and	7. Title and Amount of	8. Price
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onof	Expiration Date	Underlying Securities	Derivativ
Security	or Exercise		any	Code	Derivative	(Month/Day/Year)	(Instr. 3 and 4)	Security
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Securities			(Instr. 5)

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Reporting Owners

Reporting Owner Name / Address	Relationships				
· · · · · · · · · · · · · · · · · · ·	Director	10% Owner	Officer	Other	
POTTER ROBERT G ONECITYPLACE DRIVE	X				
ST. LOUIS, MO 63141	21				

Signatures

/s/ Robert G. Jones, Attorney-in-Fact 06/16/2011

**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 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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