Ziegler John A. Form 4 June 18, 2012

FORM 4

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

OMB

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 5 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

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person * Ziegler John A.

5. Relationship of Reporting Person(s) to Issuer

Symbol

ARCH COAL INC [ACI]

(Check all applicable)

(Last)

(First) (Middle) 3. Date of Earliest Transaction

2. Issuer Name and Ticker or Trading

Director

10% Owner Other (specify

ONE CITYPLACE DRIVE, SUITE

(Street)

06/15/2012

(Month/Day/Year)

X_ Officer (give title below) below) Vice President - HR

300

4. If Amendment, Date Original

(Instr. 8)

6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year)

Applicable Line)

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

(I)

(Instr. 4)

Person

ST. LOUIS, MO 63141

(City) (State) (Zip)

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

Owned

1. Title of Security (Instr. 3)

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

Execution Date, if

(Month/Day/Year)

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

5. Amount of Securities Beneficially

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

Ownership

(Instr. 4)

(A)

(Instr. 3, 4 and 5)

Following Reported Transaction(s)

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

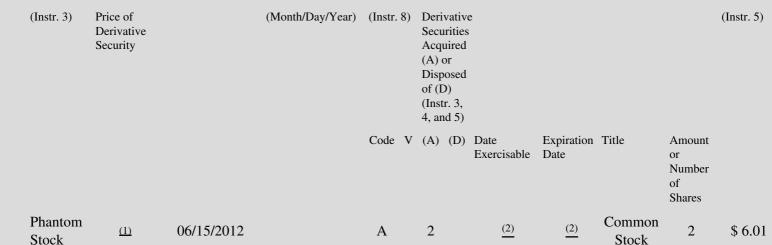
Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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	orNumber	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

Ziegler John A.

ONE CITYPLACE DRIVE SUITE 300

Vice President - HR

ST. LOUIS, MO 63141

Signatures

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

06/18/2012

**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".) The shares of phantom stock acquired by the executive officer represent dividends attributable to amounts that the executive officer elected to defer under the Plan into a hypothetical investment in shares of Arch Coal Common stock.
- (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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