LOCKHART THOMAS A

Form 4 June 16, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

30(h) of the Investment Company Act of 1940

OMB Number:

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January 31, 2005

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OMB APPROVAL

response...

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

obligations

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

may continue. See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * LOCKHART THOMAS A

(First)

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

(Last)

(Middle)

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

(Check all applicable)

ONE CITYPLACE DRIVE

(Month/Day/Year)

06/15/2010

Filed(Month/Day/Year)

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

6. Individual or Joint/Group Filing(Check

below)

4. If Amendment, Date Original

Applicable Line)

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

Person

(Street)

ST. LOUIS, MO 63141

(Zip)

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

1.Title of Security (Instr. 3)

(City)

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

(State)

(Month/Day/Year)

4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5) 5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (Instr. 4) (Instr. 4)

Reported (A) or

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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(9-02)

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

1. Title of Derivative Conversion Security or Exercise (Instr. 3) Price of

3. Transaction Date 3A. Deemed (Month/Day/Year)

Execution Date, if (Month/Day/Year)

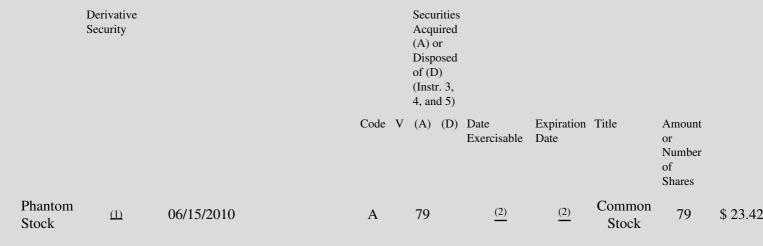
4 5. TransactionNumber Code of (Instr. 8) Derivative

6. Date Exercisable and **Expiration Date** (Month/Day/Year)

7. Title and Amount of 8. Price of **Underlying Securities** (Instr. 3 and 4)

Derivative Security (Instr. 5)

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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
LOCKHART THOMAS A 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"). 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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