LOCKHART THOMAS A

Form 4

September 17, 2009

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

OMB Number:

3235-0287

Check this box if no longer subject to Section 16.

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

January 31, 2005 Estimated average

0.5

Form 4 or Form 5 obligations

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

burden hours per response...

Expires:

OMB APPROVAL

may continue. See Instruction

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

(First)

(Street)

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

LOCKHART THOMAS A

Symbol ARCH COAL INC [ACI]

(Check all applicable)

(Last)

(Middle)

3. Date of Earliest Transaction

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

ONE CITYPLACE DRIVE

(Month/Day/Year) 09/15/2009

below)

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check Applicable Line)

Filed(Month/Day/Year)

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

Person

ST. LOUIS, MO 63141

(State) (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

(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)

(A) or

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.

SEC 1474 (9-02)

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number.

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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	Derivative				Secu	rities					
	Security				Acquired						
					(A) c	or					
					Disp	osed					
					of (D))					
					(Inst	r. 3,					
					4, an	d 5)					
			Code	V	(A)	(D)	Date	Expiration	Title	Amount	
							Exercisable	Date		or	
										Number	
										of	
										Shares	
Phantom	<u>(1)</u>	09/15/2009	A		68		(2)	(2)	Common	68	\$ 21.6
Stock									Stock		

Reporting Owners

Reporting Owner Name / Address	Relationships						
Fg	Director	10% Owner	Officer	Other			
LOCKHART THOMAS A ONE CITYPLACE DRIVE ST. LOUIS, MO 63141	X						

Signatures

/s/ Gregory A. Billhartz, Attorney-in-Fact 09/17/2009

**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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