FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	S IN BENEF	ICIAL O	WNERSH	IΡ

	OMB APPROVAL									
l	OMB Number:	3235-0287								
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	Check this box if no longer subject to
١	Section 16. Form 4 or Form 5
	obligations may continue. See
	Instruction 1(b)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* LOCKHART THOMAS A					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									ationship k all appl Direct	icable)	,			
(Last) (First) (Middle) ONE CITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 09/30/2008									Office below	r (give title)		Other (s below)	specify
(Street) ST. LOU (City)			53141 (Zip)		4. If	f Ame	ndment	t, Date	of Original	Filed	(Month/E	oay/Year)		6. Indi Line)	Form	Joint/Group filed by One filed by More n	Repor	rting Perso	n
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						Execution Date,			Code (Instr. 5)				4 and Securition Benefici		ies For ially (D) Following (I) (I		Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code	v	Amount	(A) or (D) Pr		e	Transac (Instr. 3	tion(s)			(111511.4)		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	I. Fransaction Code (Instr. 3)		ı of		6. Date Exercisable a Expiration Date (Month/Day/Year)			e and 7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		De Se (In	Price of crivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (I or Indire (I) (Instr	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisable		opiration	Title	Amour or Number of Shares	er					
Phantom Stock	(1)	09/30/2008			A		456		(2)		(2)	Common Stock	456	,	\$32.89	13,117		D	

Explanation of Responses:

- 1. 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.

Remarks:

/s/ Gregory A. Billhartz, Attorney-in-Fact

10/02/2008

** Signature of Reporting Person

Date

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

- * 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.