FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Was	hingt	ton,	D.C.	20549	

Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
obligations may continue. See	
Instruction 1(b).	Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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]								(Cr	ieck all a		cable)	y Per	rson(s) to Iss 10% Ov		
(Last)	ast) (First) (Middle) NE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 06/30/2008											icer low)	(give title		Other (s below)	specify
(Street) ST. LOUIS MO 63141 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)								Lin	Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
1. Title of Security (Instr. 3) 2. Transac Date					action				cquired, Disposed of, or Ber 3.			ired ((A) or	5. Ai	5. Amount of Securities Beneficially		Form: Direct		7. Nature of Indirect Beneficial		
(work					(Month/Day/Y		Day/Ye	ear) 8			Amount	(A) or		Price	Own Rep	Owned Following Reported Transaction(s) (Instr. 3 and 4)		(i) (Instr. 4)		Ownership (Instr. 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. Deemed Execution E if any (Month/Day	Date, 1		ransaction ode (Instr.		of		6. Date Exercisab Expiration Date (Month/Day/Year)		Amount of			8. Price Derivati Security (Instr. 5)	ve	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	,	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code	Code	v	(A)	(D)	Date Exerc	cisable	Ex Da	piration te	Title	or Nu of	nount imber ares	er					
Phantom	(1)	06/30/2008			Α		200			(2)		(2)	Common	2	200	\$75.03		12,629		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

07/02/2008

** 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.