FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

'	Was	hingto	n, D	.C. 2	0549

STATEMENT	OF CHANG	SES IN BENEI	FICIAL OW	NERSHIP

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

Check this box if no longer subject to 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]							(Che	5. Relationship of Reporting Person (Check all applicable)			,			
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 03/31/2011								Office below	r (give title		10% Ov Other (s below)			
(Street) ST. LOU (City)			53141 (Zip)		4. If	f Ame	ndment	t, Date	of Original	Filed	(Month/D	Day/Year)		6. Inc) 【 Form	Joint/Group filed by One filed by Mor n	Repo	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 (Transaction Disposed Of (D) (Ir Code (Instr. 5)				Securiti Benefic	rities Fo eficially (D) ed Following (I)		Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
							Code	v	Amount	ınt (A) or (D)		rice	Transac	action(s) 3 and 4)			(Instr. 4)		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
Derivative Conversion I		Date (Month/Day/Year) if	Execution if any	Execution Date, if any		4. Transaction Code (Instr. 8)		ı of l		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)			3. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transactions (Instr. 4)	/ E	Downership Form: Direct (D) Or Indirect I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisabl		xpiration ate	Title	Amo or Num of Shar	ber					
Phantom Stock	(1)	03/31/2011			A		416		(2)		(2)	Common Stock	41	.6	\$36.04	21,046		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/ Jon S. Ploetz, Attorney-in-

04/01/2011

Fact

** 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.

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