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## FORM 4

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

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

# STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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4)

1. Name and Addr PERRY A M	1 0	erson*		er Name <b>and</b> Ticke CH COAL INC	0	ymbol		tionship of Reporting Person(s) to Issuer all applicable) Director 10% Owner			
(Last) (First) (Middle) ONE CITYPLACE DRIVE				e of Earliest Transac /2008	ction (Month/D	bay/Year)		Officer (give title below)	Other below	(specify )	
,			4. If Ar	nendment, Date of (	Original Filed	(Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable				
(Street) ST. LOUIS	МО	63141					Line) X	Form filed by One Form filed by Mo Person	1 0		
(City)	(State)	(Zip)						1 013011			
		Table I - Nor	-Derivative S	ecurities Acqu	uired, Disp	osed of, or Benefi	cially	Owned			
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)		5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	

(	(Month/Day/Year)	8)		-,			Owned Following Reported	(I) (Instr. 4)	Owne (Instr
		Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(insu.

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 Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of Deri Sec Acq (A) ( Disp of (I	Expiration Date (Month/Day/Year) curities quired ) or sposed (D) str. 3, 4		Expiration Date (Month/Day/Year)		Date Amount of		Amount of Securities Security (Instr. 5) Derivative Security		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares						
Phantom Stock	(1)	05/20/2008	05/23/2008	D			8,435	(2)	(2)	Common Stock	8,435	\$66.1	15,664	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

05/23/2008

\*\* 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.