FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

1. Name and Address of Reporting Person* SANDS THEODORE D					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								(Che	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
(Last) (First) (Middle) ONE CITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 09/15/2008										Office below	r (give title)		Other (: below)	specify		
(Street) ST. LOU	IS M		53141		4. If	f Ame	endment	t, Date	of Origir	al File	ed (Mo	lonth/D	ay/Year)		Line) X Form	filed by One	e Rep	g (Check Ap orting Perso n One Repo	on
(City)	(S1	tate) (Zip)																	
		Tab	e I - Nor	1-Deriv	ative	Se	curitie	es A	cquire	l, Di	spos	sed o	of, or B	enef	iciall	y Owne	d ———			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						Execution Date,			Cod	Transaction Disposed Code (Instr. 5)		rities Acquired (A) ed Of (D) (Instr. 3, 4			5. Amou Securiti Benefic Owned Reporte	ies For cially (D) Following (I) (n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Cod	e V	Ai	Amount (A) or (D)		rice	Transac	ansaction(s) nstr. 3 and 4)			(111501.4)			
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,	4. Transa Code (I B)		of I		Expiration	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa	ıble	Expira Date	ation	Title	Amo or Num of Shar	ber					
Phantom Stock	(1)	09/15/2008			A		146		(2)		(2	2)	Common Stock	14	16	\$35.71	57,945		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"). 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.

Remarks:

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

09/17/2008

** 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.