FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
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Instruction 1(h)

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 Issue (Check all applicable) X Director 10% Own						
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 06/30/2008								Office below	r (give title)		Other (s below)	specify		
(Street) ST. LOU (City)			63141 (Zip)		4. If	f Ame	ndment	t, Date	of Original I	Filed	(Month/E	Oay/Year)		6. Ind Line)	Form	Joint/Group filed by One filed by More	Report	ting Perso	n
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				action	2A. Deemed Execution Date,		3. Transac Code (II 8)	tion	4. Securities Ac Disposed Of (D) 5)		uired (A) or Instr. 3, 4 and		5. Amount of Securities I Beneficially		Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial 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. Deeme Execution if any (Month/Da	Date,		ransaction code (Instr.		mber rative rities ired r osed) . 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		S (I	. Price of erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y Dir or (I)	o. wnership orm: rect (D) Indirect (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisable		piration ate	Title	Amou or Numl of Share	ber					
Phantom Stock	(1)	06/30/2008			A		533		(2)		(2)	Common Stock	53	3	\$75.03	57,800		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:

<u>/s/ Gregory A. Billhartz,</u> <u>Attorney-in-Fact</u>

** Signature of Reporting Person Date

07/02/2008

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

- * 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.