FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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

											<u> </u>									
1. Name and Address of Reporting Person*				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)								
SANDS THEODORE D						THE COLD INC.								2	X Directo	or		10% O	wner	
(Last)							3. Date of Earliest Transaction (Month/Day/Year) 03/31/2010								Officer below)	(give title		Other (sbelow)	specify	
ONE CITYPLACE DRIVE																				
								Date	te of Original Filed (Month/Day/Year)						6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) ST. LOU	IIS M		63141											:	X Form	filed by One	Rep	orting Perso	on	
51. LOU	115 IVI		03141												Form filed by More than One Reporting Person					
(City)	(S	tate)	(Zip)																	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
		TAD	ie i - Nor			- Se	curities	SAC		ואכוכ					y Owner	J.				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						Execution Date,		3. Transaction Code (Instr. 3, 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			4 and Securitie Benefici Owned F		es Formalially (D) Following (I)		n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership				
							Code	v	Amount	(A) or (D)		rice	Reporte Transac (Instr. 3	tion(s)			(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 Dat if any (Month/Day/Yo	Date,	Code (Inst				6. Date Exercisal Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		ırity	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transactio (Instr. 4)	e s ally	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amor Nur of Sha	.						
Phantom Stock	(1)	03/31/2010			A		1,313		(2)		(2)	Common Stock	1,3	313	\$22.85	40,820		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-

Fact

** Signature of Reporting Person

Date

04/02/2010

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.