## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

<b>STATEMENT</b>	<b>OF CHANGES</b>	S IN BENEFI	CIAL OW	<b>NERSHIP</b>

OMB APPROVAL								
OMB Number:	3235-028							

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	Check this box if no longer subject to
١	Section 16. Form 4 or Form 5
J	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*  JENNINGS BRIAN J					2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
JENNINGS DRIAN J												- 1	X	Directo	or		10% Ov	vner		
(Last) (First) (Middle)				3. Date of Earliest Transaction (Month/Day/Year) 12/31/2009							$\neg$		Officer below)	(give title		Other (s	specify			
ONE CITYPLACE DRIVE						12/31/2003														
ONE CITTENCE DRIVE				4 11	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable							
(Street)					""	4. II / III citalinent, bate of Original Fied (Mortalibay/Teal)									Line)					
ST. LOU	IS M	0	63141											X	Form 1	filed by One	Repo	orting Perso	n	
															Form f Persor	filed by More	e thar	n One Repo	rting	
(City)	(S	tate)	(Zip)																	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
4				2. Transa		_			<del>-</del>						1				7. 11-4	
1. Title of	Security (Inst	tr. 3)		Date		Execution Date,			, Transac	3. 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				4 and Securities		es	6. Ownership Form: Direct		7. Nature of Indirect	
(Month/Da						ay/Year)   if any (Month/Day/Year)		Code (Instr.   5) r)   8)			Own		d Following   (ì) (		Instr. 4)	Beneficial Ownership				
											Amount (A) or D		or		Reporte Transac				(Instr. 4)	
									Code	V	Amount	(D)	" Pri	ce	(Instr. 3					
		Т	able II - D	Derivat	tive S	Secu	ırities	Aca	uired. Di	spc	sed of	or Ben	eficia	ally C	Owned					
									, option											
1. Title of	2.	3. Transaction Date (Month/Day/Year)	3A. Deemed	d 4	4. Transaction Code (Instr. 8)		action of		6. Date Exe	ercisable and 7. Title and		ıd	8. Price		9. Number	of 10.	10.	11. Nature		
Derivative	Conversion		Execution D if any (Month/Day/	Date, T					Expiration		Amount of		D	erivative	derivative	_	Ownership	of Indirect		
Security (Instr. 3)	or Exercise Price of Derivative Security								(Month/Day/Year) Securities Underlying				g	Security (Instr. 5)		Securities Beneficially		Direct (D) Owne	Beneficial Ownership	
							Acquir (A) or	ed	Derivative Secu (Instr. 3 and 4)					rity		Owned Following		or Indirect (Insti	(Instr. 4)	
	Disposed Disposed								iiu <del>4</del> ,		Reported			(1) (111341. 4)						
of (D) (Instr. 3, 4														Transaction(s) (Instr. 4)						
							and 5)													
													Amou	ınt						
													or Numb	er						
					Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	of Share	s						
Phantom Stock	(1)	12/31/2009			A		1,742		(2)	T	(2)	Common Stock	1,74	2	\$22.25	19,038		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/ Robert G. Jones, Attorney-

01/04/2010

in-Fact

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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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