FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D	D.C.	20549
---------------	------	-------

STATEMENT OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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 and Ticker or Trading Symbol ARCH COAL INC [ACI]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
<u>JEININI</u>	NG5 BKI	<u>lAIN J</u>			-					,				:	X Direct	or		10% O	wner	
(Last) ONE CI	(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 09/29/2006									Office below	r (give title)		Other (sbelow)	specify	
					4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable					
(Street) ST. LOU	IIS M	0	63141										filed by Mor	by One Reporting Person by More than One Reporting						
(City)	(S	tate)	(Zip)												Perso	n				
		Tab	le I - Nor	ı-Deriv	ative	e Se	curiti	es A	cquired	Dis	posed	of, or B	enef	ficial	ly Owne	d				
Date			2. Trans Date (Month/		ar) l	2A. Deemed Execution Date, if any (Month/Day/Yea		e, Transaction Dis Code (Instr. 5)		Dispose	ecurities Acquired (A losed Of (D) (Instr. 3,			Benefic Owned	es ially Following	Form:	Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
		Code V Am					Amoun	t (A)	or 1	Price		action(s) 3 and 4)			(Instr. 4)					
		Т	able II - I									, or Ber ible sec			Owned					
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. Transactic Code (Ins				6. Date Ex Expiration (Month/Da	Date		e and 7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)	/ [C	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)	
				Code		v	(A)	(D)	Date Exercisal		xpiration ate	Title	or	ount nber ires						
Phantom Stock	(1)	09/29/2006			Α		346		(2)		(2)	Common Stock	34	46	\$28.91	346	\neg	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 certain portions of the phantom stock account into an alternative investment account at any time.

Remarks:

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

10/03/2006

** 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.