FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-028								
Estimated average b	urden								

0.5

hours per response:

Check this box if no longer subject to Section 16. Form 4 or Form 5 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* PEUGH DAVID B					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]										Relationship of Reporting Person(s) to Issuer (Check all applicable) Director						
(Last)	(Fi	irst) ORIVE		3. Date of Earliest Transaction (Month/Day/Year) 01/30/2007										X	below)		Other (spe below) ent - Bus Dev		specify		
(Street) ST. LOU (City)			63141 (Zip)		- 4. It	. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
		Tab	le I - Noi	n-Deriv	ative	e Se	curiti	ies Ad	cqu	ıired, [Disp	osed o	of, or	r Ben	eficia	ally	Owned	k			
Da			Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Ins							5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
							Code	Code V		Amount (A) or (D)		Price	Trong		tion(s)			(Instr. 4)			
Common Stock 01/					0/200	/2007				A		2,016		A	(1)	23,87			D	
Common Stock																	2,158			I	By 401(k) Plan
		Т	able II -									sed of					wned			,	•
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,	4. Transaction Code (Instr. 8)				6. Date Exercisal Expiration Date (Month/Day/Year			Ame Sec Und Deri		7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		De	Price of erivative ecurity astr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e O s Fe ally D o g (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Cod	Code	v	(A)	(D)	Da Ex	te ercisable		piration	Title	1	Amount or Number of Shares						
Restricted Stock	(2)	01/30/2007			M			2,016		(3)		(4)	Comi	mon	2,016		(1)	1,512		D	

Explanation of Responses:

- 1. The reporting person received 7,560 restricted stock units on January 30, 2004. The restricted stock units vest ratably over a three-year period. Upon vesting of 2,520 restricted stock units on January 30, 2007, the reporting person received 2,016 shares of common stock and deferred receipt of 504 shares of common stock pursuant to the Arch Coal, Inc. Executive Deferred Compensation Plan.
- 2. Each restricted stock unit represents a right to receive one share of common stock unless otherwise deferred, at the reporting person's election, pursuant to the Arch Coal, Inc. Executive Deferred Compensation Plan.
- 3. The reporting person received 7,560 restricted stock units on January 30, 2004. The restricted stock units vest ratably over a three-year period. On January 30, 2007, 2,520 restricted stock units vested.
- 4. The restricted stock units do not expire.

Remarks:

/s/ Gregory A. Billhartz, Attorney-in-Fact 01/31/2007

** 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.