FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-0287									
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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* <u>Warnecke David N</u>					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]										5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last) (First) (Middle) CITYPLACE ONE SUITE 300					3. Date of Earliest Transaction (Month/Day/Year) 02/25/2008										A belo	/P-Marketi		Other (specification) g & Trading		
(Street) ST. LOUIS MO 63144					4. If Amendment, Date of Original Filed (Month/Day/Year)									Lin	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(Si		(Zip)		<u></u>				<u> </u>					<u> </u>						
		Iab	le I - Non	-Deriva	ative	Sec	curition	es Ac	quirea,	Disp	osea	ot, or E	sene	eticiai	lly Own	ea				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D						ar) E	2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Transaction Dispose Code (Instr. 5)		urities Acquired (A) sed Of (D) (Instr. 3, 4			d Secur Benef	cially I Following	Form (D) o	n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amoun	t (A (D	or	Price	Trans	ction(s) 3 and 4)			(111311. 4)	
Common Stock 02/25.						5/2008			M		800	00 A		(1)	2	21,300		D		
		Т	able II - [uired, D						Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemee Execution I if any (Month/Day	Date, T	4. Transactio Code (Instr 8)		n of		6. Date Exe Expiration (Month/Day		7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)		ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)		Date Exercisable		piration te	Title	or Nu of	nount imber iares						
Restricted Stock	(2)	02/25/2008			M			800	(3)		(4)	Commo	1 8	300	(1)	800		D		

Explanation of Responses:

- 1. The reporting person received 2,400 restricted stock units on February 23, 2006. The restricted stock units vest ratably over a three-year period. Upon vesting of 800 restricted stock units on February 25, 2008, the reporting person received 800 shares of common stock.
- 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 2,400 restricted stock units on February 23, 2006. The restricted stock units vest ratably over a three-year period. On February 25, 2008, 800 restricted stock units vested.
- 4. The restricted stock units do not expire.

Remarks:

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

02/27/2008

** 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.