FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	S IN BENEFI	CIAL OW	NERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
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0.5

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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]										(Check	ationship of Reportin call applicable) Director Officer (give title		g Person(s) to Issuer 10% Owner Other (specify		wner		
(Last) (First) (Middle) CITYPLACE ONE SUITE 300					3. Date of Earliest Transaction (Month/Day/Year) 11/05/2010									X	below) below) VP-Marketing & Trading						
(Street) ST. LOU			53144 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Indiv Line) X	Forn	or Joint/Group Filing (Check Applicable m filed by One Reporting Person m filed by More than One Reporting son				
		Tabl	e I - Noi	n-Deriv	ative	Se	curit	ies A	cqı	uired,	Disp	osed o	f, o	r Be	nefic	cially	Owne	ed			
Date			2. Transa Date (Month/D	Execution Date,		3. 4. Securities Acquirities A						Securities Beneficially Owned Following		Forr (D)	Ownership m: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership					
										Code	v	Amount		(A) or (D)	Pri	ce		ted action(s) 3 and 4)			(Instr. 4)
Common Stock 11/05				/2010	10		S		6,100		D	\$2	27.87		7,700		D				
Common Stock 11/0			11/05	/2010)10			S		2,700		D	\$2	27.89	5,000			D			
Common Stock 11				11/05	5/2010					S		800		D	\$2	27.85	0			I	Shares held by spouse in trust
		Ta	able II - I (sed of, onvertib					wned				
1. Title of Derivative Security (Instr. 3) 1. Title of Conversion or Exercise Price of Derivative Security 1. Title of Conversion Date (Month/Day/Year) 2. Conversion Date (Month/Day/Year) 3. Transaction Date (Execution Date if any (Month/Day/Year)		n Date, ay/Year) -	4. Transa Code (8)	action of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		E (r	6. Date Exercisable ar Expiration Date (Month/Day/Year) Date Expirati Exercisable Date			Amount of Securities Underlying Derivative Security (Instr. and 4) Amount of Manual Amount or Numbe of Security Instr.		nt er		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	(10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)				

Explanation of Responses:

Remarks:

/s/ Jon S. Ploetz, Attorney-in-

Fact

** Signature of Reporting Person

11/08/2010 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.