Warnecke David N Form 4 November 08, 2010

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287

Expires: January 31, 2005
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Check this box if no longer subject to Section 16. Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF
16.
SECURITIES

Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

Stock

(Print or Type Responses)

s of Reportin N	g Person *	2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
First)	(Middle)	3. Date of Earliest Transaction					
NE, SUITE	E 300	(Month/Day/Year) 11/05/2010	Director 10% Owner _X_ Officer (give title Other (specify below) VP-Marketing & Trading				
Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check				
ST. LOUIS, MO 63144		Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person				
	N First) NE, SUITE Street)	First) (Middle) NE, SUITE 300 Street) 63144	Symbol ARCH COAL INC [ACI] First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) IE, SUITE 300 11/05/2010 Street) 4. If Amendment, Date Original Filed(Month/Day/Year) 63144				

31.1	LOUIS,	Person								
((City)	(State)	(Zip) Table	e I - Non-D	erivative	Secur	ities Acqu	uired, Disposed of	, or Beneficiall	y Owned
1.Title Secur (Instr.	rity	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	4. Securi n(A) or Di (Instr. 3,	(A) or	d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	
Com	nmon k	11/05/2010		S	6,100	D	\$ 27.87	7,700	D	
Com	nmon	11/05/2010		S	2,700	D	\$	5,000	D	

Common Stock	11/05/2010	S	800	D	\$ 27.85 0	I	Shares held by spouse in trust
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of information contained in this form are not (9-02)

27.89

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title o	f 2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exer	cisable and	7. Titl	e and	8. Price of	9. Nu
Derivativ	e Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration D	ate	Amou	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	/Year)	Under	lying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	e		Securi	ties	(Instr. 5)	Bene
	Derivative				Securities	S		(Instr.	3 and 4)		Own
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									A		
									Amount		
						Date	Expiration		Or		
						Exercisable	Date		Number		
				C 1 W	(A) (D)				of		
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Warnecke David N CITYPLACE ONE SUITE 300 ST. LOUIS, MO 63144

VP-Marketing & Trading

Signatures

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

11/08/2010

**Signature of Reporting Person

Date

Explanation of Responses:

- * 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. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

Reporting Owners 2