FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPROVAL								
l	OMB Number:	3235-0287							
l	Estimated average burde	en							
l	hours per response:	0.5							

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 Iss Check all applicable) Director 10% Ov X Officer (give title Other (s							
(Last) (First) (Middle) CITYPLACE ONE							3. Date of Earliest Transaction (Month/Day/Year) 02/21/2008										ng &	below) Trading	specify			
SUITE 300							If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable						
(Street) ST. LOUIS MO 63144							·		Ü				Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person									
(City) (State) (Zip)																						
		Tab	le I - Nor	n-Deri	vativ	e Se	curities	s Ac	quired, [Disp	osed o	f, or Be	neficia	lly (Owned							
1. Title of Security (Instr. 3) 2. Transa Date (Month/D						Execution Date,			Code (Instr. 5)					ıd	5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount	(A) c (D)	r Price		Reported Transact (Instr. 3 a	tion(s)			(Instr. 4)			
Common Stock 02/21/							2008				5,000	5,000 A \$		00	20,500			D				
		-	Table II -						uired, Di , options						wned							
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Yea	Date,	4. Transactic Code (Ins 8)				6. Date Exe Expiration (Month/Day	Date		nd 7. Title and Am of Securities Underlying Derivative Sec (Instr. 3 and 4)		Do	B. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	e S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)			
					Code		(A)	(D)	Date Exercisable		Expiration Date	Title	Amount or Number of Shares									
Employee Stock Options (right to buy)	\$52.69	02/21/2008			A		42,300		(1)	0	2/21/2018	Common Stock	42,30)	\$0.00	42,30	0	D				

Explanation of Responses:

 $1. \ The \ option \ vests \ in \ three \ equal \ annual \ installments \ beginning \ on \ February \ 21, \ 2009.$

Remarks:

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

02/25/2008

** Signature of Reporting Person Da

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.