FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

wasinington,	D.C.	20343	

OMB APPROVAL

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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 S	Secti	on 30(h)	of the I	nvestme	nt Cor	npany Act	of 194	10						
1. Name and Address of Reporting Person*  Warnecke David N						2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]									Check all	applicable) irector		Person(s) to Is	wner
(Last) (First) (Middle) CITYPLACE ONE SUITE 300						3. Date of Earliest Transaction (Month/Day/Year) 05/08/2007										Officer (give title below) Other (specify below)  VP-Marketing & Trading			
(Street) ST. LOUIS MO 63144  (City) (State) (Zip)				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								ine) X F F	idual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person					
		Tabl	e I - Noi	n-Deriv	ative	Se	curitie	es Acc	quired,	Dis	posed o	f, or	Ben	eficia	ally Ov	ned			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)				Execution Date,		Transaction Disposed Code (Instr. 5)		ties Acquired (A) d Of (D) (Instr. 3, 4			nd Se Be Ov	Amount of curities neficially ned Followin	F	6. Ownership Form: Direct D) or Indirect I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
									Code	v	Amount		A) or D)	Price	Tra	nsaction(s) str. 3 and 4)			(11311. 4)
Common Stock 05/08/				3/2007	2007		S		4,600		D	\$36	.55	5,900		D			
Common Stock 05/08/			3/2007				s 100 D		\$35	.56	5,800	5,800							
		Та									sed of, onvertib				y Own	ed			
1. Title of Derivative Security (Instr. 3)	ivative Conversion Date Execution Da urity or Exercise (Month/Day/Year) if any		Date,		of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Exercisable Date		Amount of Securities Underlying Derivative Security (Instr. and 4)		ount nber	8. Price Derivati Security (Instr. 5	derivativ Securiti	ve es ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

**Explanation of Responses:** 

Remarks:

/s/ Gregory A. Billhartz, Attorney-in-Fact 05/14/2007

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

<sup>\*</sup> If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).