SEC Form 3

FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL

OMB Number: 3235-0104 Estimated average burden hours per response: 0.5

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 Add Warnecke I	. Date of Event Requiring Stater Month/Day/Yea 17/28/2005	ment	3. Issuer Name and Ticker or Trading Symbol <u>ARCH COAL INC</u> [ACI]								
(Last) (First) (Middle) CITYPLACE ONE					4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify			er (Mi	 5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) 		
SUITE 300					A below) below)		10.1				
(Street)			VP-Marketing & Tradi			Irading		X Form filed by One Reporting Person			
ST. LOUIS	MO	63144							Form filed b Reporting P	y More than One erson	
(City)	(State)	(Zip)									
Table I - Non-Derivative Securities Beneficially Owned											
1. Title of Security (Instr. 4)					2. Amount of Securities Beneficially Owned (Instr. 4)				Nature of Indirect Beneficial Ownership Istr. 5)		
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)											
1. Title of Derivative Security (Instr. 4)			2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securit Underlying Derivative Securit			4. Conversion or Exercise	Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
			Date Exercisable	Expiratior Date	n Title		Amount or Number of Shares	Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)		
Employee Sto	ployee Stock Options		02/22/2004	02/22/2011		Common Stock	300	21.95	D		
Employee Sto	mployee Stock Options		(1)	02/29/2012		Common Stock	6,574	18.15	D		
Employee Stock Options		(2)	04/25/2012		Common Stock	13,150	22.6	D			
Employee Stock Options		04/28/2008	(3)		Common Stock	5,000	43.5	D			
Phantom Stock		(4)	12/31/2008		Common Stock	9,400	(5)	D			

Explanation of Responses:

1. These Stock Options vests as follows: 3,287 on 2/28/2005 and 3,287 on 2/28/2006.

2. These Stock Options vest as follows: 3,288 on 4/25/2003; 3,288 on 4/25/2004; 3,287 on 4/25/2005; and 3,287 on 4/25/2006.

3. No expiration

4. The Phantom Stock will vest in the event the Company's common stock hits target prices of \$70.00 or \$80.00 and the Company's financial performance meets certain targets at such time. 5 1-for-1

Remarks:

<u>/s/ Janet L. Horgan, Attorney-</u> <u>in-Fact</u>

08/08/2005

** 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 5 (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.

g Person Date