CLOUD PEAK ENERGY INC.

Form 4

November 20, 2009

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

3235-0287 Number:

OMB APPROVAL

January 31, Expires: 2005

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

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).

(Print or Type Responses)

1. Name and Address of Reporting Person * **RIO TINTO PLC**

(First)

(Street)

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to

Issuer

Symbol

CLOUD PEAK ENERGY INC.

(Check all applicable)

[CLD]

(Last)

(Middle)

(Zip)

3. Date of Earliest Transaction

X Director Officer (give title below)

10% Owner Other (specify

2 EASTBOURNE TERRACE.

11/19/2009

(Month/Day/Year)

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Applicable Line) Form filed by One Reporting Person

Filed(Month/Day/Year)

X Form filed by More than One Reporting Person

LONDON, X0 W2 6LG

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of Security (Instr. 3)

(City)

2. Transaction Date 2A. Deemed (Month/Day/Year)

(State)

Execution Date, if

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5) 5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (I) (Instr. 4) (Instr. 4)

(A) or

Reported Transaction(s) (Instr. 3 and 4)

Code V Amount (D) Price

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

1. Title of 3. Transaction Date 3A. Deemed 5. Number of 6. Date Exercisable and 7. Title and Amoun Conversion TransactionDerivative Derivative (Month/Day/Year) Execution Date, if Underlying Securiti **Expiration Date** (Instr. 3 and 4) Security or Exercise Code Securities Acquired (Month/Day/Year) any

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(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr.	8)	(A) or Disposed of (D) (Instr. 3, 4, and 5)					
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amo Num Shar
Common Membership Units	\$ 0 <u>(1)</u>	11/19/2009		D			30,600,000	<u>(1)</u>	<u>(1)</u>	Common Stock of Cloud Peak Energy Inc., par value \$.01/share	30,

Reporting Owners

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
RIO TINTO PLC 2 EASTBOURNE TERRACE LONDON, X0 W2 6LG	X	X				
RIO TINTO EUROPEAN HOLDINGS LTD 2 EASTBOURNE TERRACE LONDON, X0 W2 6LG	X	X				
RIO TINTO WESTERN HOLDINGS LTD 2 EASTBOURNE TERRACE LONDON, X0 W2 6LG	X	X				
RIO TINTO AMERICA HOLDINGS INC 100 QUENTIN ROOSEVELT BOULEVARD GARDEN CITY, NY 11530	X	X				
RTAH LLC P.O. BOX 3009 505 SOUTH GILLETTE AVENUE GILLETTE, WY 82717-3009	X	X				
RIO TINTO AMERICA INC 3595 S 8309 W MAGNA, UT 84044	X	X				
RIO TINTO ENERGY AMERICA INC 505 SOUTH GILLETTE AVENUE GILLETTE, WY 82717-3009	X	X				
KENNECOTT MANAGEMENT SERVICES CO P.O. BOX 3009 505 SOUTH GILLETTE AVENUE GILLETTE, WY 82717-3009	X	X				

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Signatures

/s/ Jim Berson, Attorney-in-Fact, RIO TINTO PLC					
**Signature of Reporting Person	Date				
/s/ Jim Berson, Attorney-in-Fact, RIO TINTO EUROPEAN HOLDINGS LIMITED					
**Signature of Reporting Person	Date				
/s/ Jim Berson, Attorney-in-Fact, RIO TINTO WESTERN HOLDINGS LIMITED					
**Signature of Reporting Person	Date				
/s/ Jim Berson, Attorney-in-Fact, RIO TINTO AMERICA HOLDINGS INC.					
**Signature of Reporting Person	Date				
/s/ Jim Berson, Attorney-in-Fact, RTAH LLC					
**Signature of Reporting Person	Date				
/s/ Jim Berson, Attorney-in-Fact, RIO TINTO AMERICA INC.					
**Signature of Reporting Person	Date				
/s/ Jim Berson, Attorney-in-Fact, RIO TINTO ENERGY AMERICA INC.					
**Signature of Reporting Person	Date				
/s/ Jim Berson, Attorney-in-Fact, KENNECOTT MANAGEMENT SERVICES COMPANY	11/17/2009				
**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).
- (1) For text of Footnote 1, see Exhibit 99.1.
- (2) For text of Footnote 2, see Exhibit 99.1.
- (3) For text of Footnote 3, see Exhibit 99.1.

Remarks:

Preston Chiaro serves on the board of directors of the Issuer and is the Group Executive, Technology & Innovation, of Rio Tinto. As a result, the Reporting Owners may be deemed directors of the Issuer by deputization.

Exhibit List

Exhibit 99.1 - Text of Footnote 1, Footnote 2 and Footnote 3.

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.

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