

ALEXCO RESOURCE CORP  
Form SC 13G/A  
January 24, 2011

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

SCHEDULE 13G/A

Under the Securities Exchange Act of 1934  
(Amendment No. 1)

Alexco Resource Corporation  
(Name of Issuer)

Common Shares  
(Title of Class of Securities)

01535P106  
(CUSIP Number)

December 31, 2010  
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

CUSIP No. 01535P106  
.....

1. NAME OF REPORTING PERSON  
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Sprott Asset Management LP

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

- (a)
- (b)

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Ontario, Canada

NUMBER OF 5. SOLE VOTING POWER

SHARES 0

BENEFICIALLY 6. SHARED VOTING POWER

OWNED BY 7,827,350

EACH 7. SOLE DISPOSITIVE POWER

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REPORTING 0

PERSON 8. SHARED DISPOSITIVE POWER

WITH 7,827,350

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

7,827,350

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES\*

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

13.2%

12. TYPE OF REPORTING PERSON\*

IA

CUSIP No. 01535P106

1. NAME OF REPORTING PERSON  
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Sprott Canadian Equity Fund

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

(a)   
(b)

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Ontario, Canada

NUMBER OF 5. SOLE VOTING POWER

SHARES 0

BENEFICIALLY 6. SHARED VOTING POWER

OWNED BY 3,039,950

EACH 7. SOLE DISPOSITIVE POWER

REPORTING 0

PERSON 8. SHARED DISPOSITIVE POWER

WITH 3,039,950

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

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3,039,950

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10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES\*

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11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

5.1%

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12. TYPE OF REPORTING PERSON\*

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Item 1.

- (a) Name of Issuer: Alexco Resource Corporation
- (b) Address of Issuer's Principal Executive Offices:  
1150-200 Granville Street, Vancouver, BC V6C 1S4 Canada

Item 2.

- (a) Name of Person Filing:  
Sprott Asset Management LP  
Sprott Canadian Equity Fund
- (b) Address of Principal Business Office:  
Sprott Asset Management LP:  
Suite 2700, South Tower, Royal Bank Plaza, Toronto, ON M5J 2J1  
Sprott Canadian Equity Fund:  
Suite 2700, South Tower, Royal Bank Plaza, Toronto, ON M5J 2J1
- (c) Citizenship:  
Sprott Asset Management LP: Canada  
Sprott Canadian Equity Fund: Canada
- (d) Title of Class of Securities: Common Shares
- (e) CUSIP Number: 01535P106

Item 3. If this statement is filed pursuant to Rule 13d-1(b), or 13d-2(b), check whether the person filing is a:

- (a)  Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
- (b)  Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c)  Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d)  Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
- (e)  An investment adviser in accordance with ss. 240.13d-1(b)(ii)(E).
- (f)  An employee benefit plan or endowment fund in accordance with ss. 240.13d-1(b)(1)(ii)(F).

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- (g) [ ] A parent holding company or control person in accordance with ss. 240.13d-1(b)(1)(ii)(G).
- (h) [ ] A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).
- (i) [ ] A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3).
- (j) [ ] Group, in accordance with ss. 240.13d-1(b)(1)(ii)(J).

Item 4. Ownership

- (a) Amount Beneficially Owned:
  - Sprott Asset Management LP: 7,827,350
  - Sprott Canadian Equity Fund: 3,039,950
- (b) Percent of Class:
  - Sprott Asset Management LP: 13.2%
  - Sprott Canadian Equity Fund: 5.1%
- (c) Number of shares as to which such person has:
  - (i) Sole power to vote or to direct the vote:
    - Sprott Asset Management LP: 0
    - Sprott Canadian Equity Fund: 0
  - (ii) Shared power to vote or to direct the vote:
    - Sprott Asset Management LP: 7,827,350
    - Sprott Canadian Equity Fund: 3,039,950
  - (iii) Sole power to dispose or to direct the disposition of:
    - Sprott Asset Management LP: 0
    - Sprott Canadian Equity Fund: 0
  - (iv) Shared power to dispose or to direct the disposition of:
    - Sprott Asset Management LP: 7,827,350
    - Sprott Canadian Equity Fund: 3,039,950

Item 5. Ownership of Five Percent or Less of a Class:

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following. [ ]

Item 6. Ownership of More than Five Percent on Behalf of Another Person:

N/A

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company:

N/A

Item 8. Identification and Classification of Members of the Group:

N/A

Item 9. Notice of Dissolution of Group:

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N/A

Item 10. Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

January 21, 2011

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Date

SPROTT ASSET MANAGEMENT LP,  
by its General Partner,  
SPROTT ASSET MANAGEMENT GP INC.

By: \_\_\_\_\_  
Name: /s/ Kirstin McTaggart  
Title: Chief Compliance Officer

Sprott Canadian Equity Fund,  
by its Investment Manager,  
SPROTT ASSET MANAGEMENT LP

By: \_\_\_\_\_  
Name: /s/ Kirstin McTaggart  
Title: Chief Compliance Officer