

TRANSALTA CORP  
Form SC 13D/A  
February 12, 2008

SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

SCHEDULE 13D  
(Amendment No. 5)\*

Under the Securities Exchange Act of 1934

TransAlta Corporation

---

(Name of Issuer)

Common Shares, no par value

---

(Title of Class of Securities)

89346D107

---

(CUSIP Number)

John Staikos  
Senior Vice President and General Counsel  
LS Power Equity Advisors, LLC  
1700 Broadway, 35th Floor  
New York, New York 10019  
212-615-3441

---

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

February 12, 2008

---

(Date of Event Which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of sections 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box. [ ]

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Section 240.13d-7 for other parties to whom copies are to be sent.

(Continued on followings pages)

(Page 1 of 14 Pages)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act") or otherwise subject to the liabilities of that section of the Exchange Act but shall be subject to all other provisions of the Exchange Act (however, see the Notes).

---

CUSIP No.  
89346D107

13D

Page 2 of 14  
Pages

1. Names of Reporting Persons.

LSP Penn Holdings, LLC

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)

(b)

3. SEC USE ONLY

4. Source of Funds (See Instructions)

WC

5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)

6. Citizenship or Place of Organization

Delaware

Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person with

7.

Sole Voting Power

0

8.

Shared Voting Power

16,782,400

9.

Sole Dispositive Power

0

10.

Shared Dispositive Power

16,782,400

11. Aggregate Amount Beneficially Owned by Each Reporting Person

16,782,400

12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)

13. Percent of Class Represented by Amount in Row (11)

8.3%

14. Type of Reporting Person (See Instructions)

OO

CUSIP No.  
89346D107

13D

Page 3 of 14  
Pages

1. Names of Reporting Persons.

LSP Penn Holdings II, LLC

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)

(b)

3. SEC USE ONLY

4. Source of Funds (See Instructions)

WC

5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)

6. Citizenship or Place of Organization

Delaware

Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person with

7.

Sole Voting Power

0

8.

Shared Voting Power

16,782,400

9.

Sole Dispositive Power

0

10.

Shared Dispositive Power

16,782,400

11. Aggregate Amount Beneficially Owned by Each Reporting Person

16,782,400

12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)

13. Percent of Class Represented by Amount in Row (11)

8.3%

14. Type of Reporting Person (See Instructions)

OO

CUSIP No.  
89346D107

13D

Page 4 of 14  
Pages

1. Names of Reporting Persons.

LS Power Partners, L.P.

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)

(b)

3. SEC USE ONLY

4. Source of Funds (See Instructions)

WC

5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)

6. Citizenship or Place of Organization

Delaware

Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person with

7.

Sole Voting Power

0

8.

Shared Voting Power

16,782,400

9.

Sole Dispositive Power

0

10.

Shared Dispositive Power

16,782,400

11. Aggregate Amount Beneficially Owned by Each Reporting Person

16,782,400

12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)

13. Percent of Class Represented by Amount in Row (11)

8.3%

14. Type of Reporting Person (See Instructions)

PN

CUSIP No.  
89346D107

13D

Page 5 of 14  
Pages

1. Names of Reporting Persons.

LS Power Partners II, L.P.

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)

(b)

3. SEC USE ONLY

4. Source of Funds (See Instructions)

WC

5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)

6. Citizenship or Place of Organization

Delaware

Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person with

7.

Sole Voting Power

0

8.

Shared Voting Power

16,782,400

9.

Sole Dispositive Power

0

10.

Shared Dispositive Power

16,782,400

11. Aggregate Amount Beneficially Owned by Each Reporting Person

16,782,400

12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)

13. Percent of Class Represented by Amount in Row (11)

8.3%

14. Type of Reporting Person (See Instructions)

PN

CUSIP No.  
89346D107

13D

Page 6 of 14  
Pages

1. Names of Reporting Persons.

Luminus Management, LLC

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)

(b)

3. SEC USE ONLY

4. Source of Funds (See Instructions)

WC

5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)

6. Citizenship or Place of Organization

Delaware

Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person with

7.

Sole Voting Power

0

8.

Shared Voting Power

16,782,400

9.

Sole Dispositive Power

0

10.

Shared Dispositive Power

16,782,400

11. Aggregate Amount Beneficially Owned by Each Reporting Person

16,782,400

12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)

13. Percent of Class Represented by Amount in Row (11)

8.3%

14. Type of Reporting Person (See Instructions)

PN

CUSIP No.  
89346D107

13D

Page 7 of 14  
Pages

1. Names of Reporting Persons.

Luminus Asset Partners, L.P.

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)

(b)

3. SEC USE ONLY

4. Source of Funds (See Instructions)

WC

5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)

6. Citizenship or Place of Organization

Delaware

Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person with

7.

Sole Voting Power

0

8.

Shared Voting Power

16,782,400

9.

Sole Dispositive Power

0

10.

Shared Dispositive Power

16,782,400

11. Aggregate Amount Beneficially Owned by Each Reporting Person

16,782,400

12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)

13. Percent of Class Represented by Amount in Row (11)

8.3%

14. Type of Reporting Person (See Instructions)

PN



CUSIP No.  
89346D107

13D

Page 8 of 14  
Pages

1. Names of Reporting Persons.  
  
Luminus Energy Partners Master Fund, Ltd.
  2. Check the Appropriate Box if a Member of a Group (See Instructions)  
(a)   
(b)
  3. SEC USE ONLY
  4. Source of Funds (See Instructions)  
  
WC
  5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)
  6. Citizenship or Place of Organization  
  
Bermuda

Number of Shares Beneficially Owned by Each Reporting Person with	7.	Sole Voting Power	0
	8.	Shared Voting Power	16,782,400
	9.	Sole Dispositive Power	0
	10.	Shared Dispositive Power	16,782,400

  11. Aggregate Amount Beneficially Owned by Each Reporting Person  
16,782,400
  12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
  13. Percent of Class Represented by Amount in Row (11)  
  
8.3%
  14. Type of Reporting Person (See Instructions)  
  
OO
-

CUSIP No.  
89346D107

13D

Page 9 of 14  
Pages

1. Names of Reporting Persons.

LPCO Investments S.a.r.l.

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)

(b)

3. SEC USE ONLY

4. Source of Funds (See Instructions)

OO

5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)

6. Citizenship or Place of Organization

Luxembourg

Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person with

7.

Sole Voting Power

0

8.

Shared Voting Power

16,782,400

9.

Sole Dispositive Power

0

10.

Shared Dispositive Power

16,782,400

11. Aggregate Amount Beneficially Owned by Each Reporting Person

16,782,400

12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)

13. Percent of Class Represented by Amount in Row (11)

8.3%

14. Type of Reporting Person (See Instructions)

OO

CUSIP No.  
89346D107

13D

Page 10 of 14  
Pages

This Amendment No. 5 (this "Amendment") amends and supplements the Schedule 13D initially filed on June 27, 2007 (the "Original Filing") and amended on October 23, 2007, December 7, 2007, December 14, 2007 and January 16, 2008 by the Reporting Persons relating to the Common Shares, no par value (the "Shares"), of TransAlta Corporation, a corporation incorporated under the Canada Business Corporations Act (the "Issuer"). Information reported in the Original Filing remains in effect except to the extent that it is amended, restated or superseded by information contained in this Amendment, Amendment No. 1, Amendment No. 2, Amendment No. 3 or Amendment No. 4. Capitalized terms used but not defined in this Amendment have the respective meanings set forth in the Original Filing.

### Item 3. Source and Amount of Funds or Other Consideration

Item 3 is hereby amended and supplemented as follows:

As of February 11, 2008, the Reporting Persons are deemed to beneficially own an aggregate of 16,782,400 Shares, as detailed in Item 5. The aggregate purchase price for such Shares was \$441,560,466.031 (exclusive of brokerage commissions and fees), which amount has come, (1) with respect to the LS Power Entities, from working capital and/or from borrowings pursuant to margin accounts maintained in the ordinary course of business with the previously identified financial institution, and (2) with respect to the Luminus Entities, from working capital.

### Item 4. Purpose of Transaction.

Item 4 is hereby amended and supplemented as follows:

On February 12, 2008, certain of the Reporting Persons issued a press release relating to the upcoming Annual and Special Meeting of Shareholders of the Issuer.

A copy of the press release is included as Exhibit 7.5 hereto and is incorporated herein by reference.

### Item 5. Interest in Securities of the Issuer.

Items 5(a) and 5(b) are hereby amended and restated as follows:

Reporting Persons	Number of Shares with Sole Voting and Dispositive Power	Number of Shares with Shared Voting and Dispositive Power	Aggregate Number of Shares Beneficially Owned	Percentage of Class Beneficially Owned
LSP Penn Holdings, LLC†	0	16,782,400	16,782,400	8.3%
LSP Penn Holdings II, LLC†	0	16,782,400	16,782,400	8.3%
LS Power Partners, L.P.	0	16,782,400	16,782,400	8.3%
LS Power Partners II, L.P.	0	16,782,400	16,782,400	8.3%
Luminus Management, LLC	0	16,782,400	16,782,400	8.3%
Luminus Asset Partners, L.P.†	0	16,782,400	16,782,400	8.3%
Luminus Energy Partners Master Fund, Ltd.†	0	16,782,400	16,782,400	8.3%
LPCO Investments S.à.r.l.	0	16,782,400	16,782,400	8.3%

† LSP Holdings currently holds 60,700 Shares and LSP Holdings II currently holds 60,700 Shares, purchased between January 16, 2008 and February 11, 2008, which are expected to be transferred to and held by LPCO. Luminus Energy Fund currently holds 533,950 shares and Luminus Asset Partners currently holds 34,950 shares, purchased between November 29, 2007 and February 11, 2008, which are expected to be transferred to and held by LPCO.

By virtue of the relationships among the Reporting Persons described herein, the Reporting Persons may be deemed to constitute a "group," which "group" may be deemed to beneficially own an aggregate of 16,782,400 Shares, representing approximately 8.3% of the outstanding Shares. The percentages used herein are based on the 202,200,000

---

<sup>1</sup> For purposes of calculating the aggregate purchase price, transactions in Shares executed in Canadian Dollars since the most recent filing on Schedule 13D on January 16, 2008 have been converted to US Dollars at a current market exchange rate of 1 CAD to 1.00428 USD.

---

CUSIP No. 13D  
89346D107

Page 11 of 14  
Pages

Shares reported to be issued and outstanding as of October 22, 2007 by the Issuer in its Report of Foreign Issuer on Form 6-K, filed with the Securities and Exchange Commission on October 24, 2007.

Items 5(c) is hereby amended and supplemented as follows:

All transactions in the Shares effected by the Reporting Persons since the most recent filing on Schedule 13D on January 16, 2008 are set forth in Annex E attached hereto and incorporated herein by reference.

Item 7. Material to be Filed as Exhibits.

Exhibit Number	Description
7.5	Press release, dated February 12, 2008

CUSIP No.  
89346D107

13D

Page 12 of 14  
Pages

SIGNATURE

After reasonable inquiry and to the best of the knowledge and belief of the undersigned, the undersigned certifies that the information set forth herein is true, complete and correct.

Dated: February 12, 2008

LSP Penn Holdings, LLC

By: /s/ Darpan Kapadia  
Name: Darpan Kapadia  
Title: Managing Director

LSP Penn Holdings II, LLC

By: /s/ Darpan Kapadia  
Name: Darpan Kapadia  
Title: Managing Director

LS Power Partners, L.P.

By: /s/ Darpan Kapadia  
Name: Darpan Kapadia  
Title: Managing Director

LS Power Partners II, L.P.

By: /s/ Darpan Kapadia  
Name: Darpan Kapadia  
Title: Managing Director

Luminus Management, LLC

By: /s/ Paul Segal  
Name: Paul Segal  
Title: President



CUSIP No.  
89346D107

13D

Page 13 of 14  
Pages

Luminus Asset Partners, L.P.

By: /s/ Paul Segal  
Name: Paul Segal  
Title: President

Luminus Energy Partners Master Fund, Ltd.

By: /s/ Paul Segal  
Name: Paul Segal  
Title: Director

LPCO Investments S.à.r.l.

By: Paul Segal, as attorney-in-fact

By: /s/ Paul Segal  
Name: Paul Segal

---



CUSIP No.  
89346D107

13D

Page 14 of 14  
Pages

## ANNEX E to SCHEDULE 13D/A

Party Effecting Transaction	Date	Buy/Sell	Quantity	Average Price (US\$)*	Currency
LSP Holdings	1/18/08	Buy	10,700	31.2331	CAD
LSP Holdings	1/22/08	Buy	25,000	30.0397	USD
LSP Holdings	1/23/08	Buy	25,000	29.5410	USD
LSP Holdings II	1/18/08	Buy	10,700	31.2331	CAD
LSP Holdings II	1/22/08	Buy	25,000	30.0397	USD
LSP Holdings II	1/23/08	Buy	25,000	29.5410	USD

---

\* Transactions in Shares executed in Canadian Dollars have been converted to US Dollars using a current market exchange rate of 1 CAD to 1.00428 USD. Average price is net of brokerage fees and commissions.