

CANADA PENSION PLAN INVESTMENT BOARD  
Form SC 13G/A  
January 21, 2005

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OMB APPROVAL  
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OMB Number: 3235-0145  
Expires: December 31, 2005  
Estimated average burden  
hours per response.....11  
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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

SCHEDULE 13G - Amendment No. 1

Under the Securities Exchange Act of 1934

TransAlta Corporation  
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(Name of Issuer)

Common Shares  
-----

(Title of Class of Securities)

89346D107  
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(CUSIP Number)

December 31, 2004  
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(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)

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\*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 the disclosures provided in a prior cover page.

The information required in 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 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the

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Notes).

Sec 1745 (6/01)

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CUSIP NO. 89346D107	13G
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1. NAMES OF REPORTING PERSONS	
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
Canada Pension Plan Investment Board / Not applicable	
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2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)	
Not applicable	(a) <input type="checkbox"/>
	(b) <input type="checkbox"/>
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3. SEC USE ONLY	
-----	
4. CITIZENSHIP OR PLACE OF ORGANIZATION	
Canada	
-----	
	5. SOLE VOTING POWER
	13,707,157
-----	
NUMBER OF SHARES	6. SHARED VOTING POWER
BENEFICIALLY OWNED BY	0
EACH	-----
REPORTING PERSON	7. SOLE DISPOSITIVE POWER
WITH	13,707,157
	-----
	8. SHARED DISPOSITIVE POWER
	0
-----	
9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
13,707,157	
-----	
10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
(SEE INSTRUCTIONS)	<input type="checkbox"/>
-----	
11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9	
7.06%	
-----	
12. TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	

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Item 1(a). Name of Issuer

The name of the issuer is TransAlta Corporation (the "Company").

Item 1(b). Address of Issuer's Principal Executive Offices

The principal executive offices of the Company are located at 110 12th Avenue S.W., Calgary, Alberta T2R 0G7, Canada.

Item 2(a). Name of Person Filing

This statement is being filed by Canada Pension Plan Investment Board ("CPP Investment Board").

Item 2(b). Address of Principal Business Office or, if none, Residence

The address of the principal business office of the reporting person is One Queen Street East, Suite 2700, Toronto, Ontario M5C 2W5, Canada.

Item 2(c). Citizenship

Canada.

Item 2(d). Title of Class of Securities

The securities to which this statement relates are Common Shares (the "Shares") of the Company.

Item 2(e). CUSIP Number

The CUSIP number of the Shares is 89346D107.

Item 3. If this statement is filed pursuant to ss.ss. 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

Not applicable.

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Item 4. Ownership

(a) As of December 31, 2004, CPP Investment Board directly owned 13,707,157 Shares.

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(b) The Shares directly owned by CPP Investment Board represented approximately 7.06% of the issued and outstanding Shares as of December 31, 2004.

(c) As of December 31, 2004, CPP Investment Board had the sole power to vote or to direct the voting of the Shares and had the sole power to dispose of or to direct the disposition of the Shares.

- Item 5. Ownership of Five Percent or Less of a Class  
Not applicable.
- Item 6. Ownership of More than Five Percent on Behalf of Another Person  
Not applicable.
- Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company  
Not applicable.
- Item 8. Identification and Classification of Members of the Group  
Not applicable.
- Item 9. Notice of Dissolution of Group  
Not applicable.
- 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.

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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.  
As of December 31, 2004

Canada Pension Plan Investment Board

By: /s/ J. H. Butler

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Name: J. H. Butler

Title: Vice President - General Counsel  
and Corporate Secretary