

OMB APPROVAL
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**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

Canadian Solar Inc.

(Name of Issuer)

Common Shares, no par value
(Title of Class of Securities)

136 635 109
(CUSIP Number)

December 31, 2006
(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)

* 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 Notes).

1	NAMES OF REPORTING PERSONS: ATS AUTOMATION TOOLING SYSTEMS INC. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS): (a) <input type="radio"/> (b) <input type="radio"/>		
3	SEC USE ONLY:		
4	CITIZENSHIP OR PLACE OF ORGANIZATION: ONTARIO (CANADA)		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER: 1,864,398	
	6	SHARED VOTING POWER:	
	7	SOLE DISPOSITIVE POWER: 1,864,398	
	8	SHARED DISPOSITIVE POWER:	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON: 1,864,398		
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS): <input type="radio"/>		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9): 6.8%		
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS): CO		

Item 1. Name of Issuer:

Canadian Solar Inc.

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

Xin Zhuang Industry Park, Changshu, Suzhou, Jiangsu, 215562, People's Republic of China

Item 2(a). Name of Person Filing:

ATS Automation Tooling Systems Inc.

Item 2(b). Address of Principal Business Office:

250 Royal Oak Road, Cambridge, Ontario, Canada, N3H 4R6

Item 2(c). Citizenship:

Ontario (Canada)

Item 2(d). Title of Class of Securities:

Common Shares

Item 2(e). CUSIP Number:

136 635 109

Item 3 If this statement is filed pursuant to Rule 13d-1(b), or 13d-2(b) or (c), 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) An 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 §240.13d-1(b)(1)(ii)(E);
- (f) An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);

- (g) o A parent holding company or control person, in accordance with §240.13d-1(b)(1)(ii)(G);
- (h) o A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) o 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) o Group, in accordance with §240.13d-1(b)(1)(ii)(J).

Item 4 Ownership.

(a)	Amount beneficially owned:	1,864,398.
(b)	Percent of class:	6.8%.
(c)	Number of shares as to which the person has:	
(i)	Sole power to vote or to direct the vote:	1,864,398.
(ii)	Shared power to vote or to direct the vote:	0.
(iii)	Sole power to dispose or to direct the disposition of:	1,864,398.
(iv)	Shared power to dispose or to direct the disposition of:	0.

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.**

Not applicable

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.

Dated: March 29, 2007

ATS Automation Tooling Systems Inc.

By: /s/ Carl Galloway
Name: Carl Galloway
Title: Treasurer