

CATERPILLAR INC  
Form S-8  
August 16, 2010

As filed with the Securities and Exchange Commission on August 16, 2010

Registration No. 333-\_\_\_\_\_

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM S-8

REGISTRATION STATEMENT UNDER  
THE SECURITIES ACT OF 1933

CATERPILLAR INC.

(Exact Name of Registrant as Specified in Its Charter)

Delaware  
(State of Incorporation)

37-0602744  
(IRS Employer Identification No.)

100 NE Adams Street  
Peoria, Illinois 61629  
(Address of Principal Executive Offices)

Solar Turbines Incorporated  
Savings and Investment Plan  
(Full Title of the Plan)

James B. Buda  
Vice President, Secretary and Chief Legal Officer  
Caterpillar Inc.  
100 NE Adams Street  
Peoria, Illinois 61629-7310  
(309) 675-4429  
(Name, Address and Telephone Number, Including Area Code, of Agent for Service)

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company

## CALCULATION OF REGISTRATION FEE

Title of securities to be registered	Amount to be registered	Proposed maximum offering price per share	Proposed maximum aggregate offering price	Amount of registration fee
Common Stock, par value \$1.00 per share	8,000,000 shares(1)	\$67.39(2)	\$539,120,000	\$38,439.26

(1) Pursuant to Rule 416 under the Securities Act of 1933, as amended (the "Securities Act"), this Registration Statement also covers an indeterminate amount of additional securities that may be issued under the Plan pursuant to the anti-dilution provisions of the Plan.

(2) Estimated solely for the purposes of calculating the registration fee, computed pursuant to Rules 457(c) and (h) under the Securities Act on the basis of the average of the high and low sales prices of a share of Caterpillar Inc. Common Stock, as reported on the New York Stock Exchange - Composite Transactions System on August 12, 2010.

Page 1

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## Part I

## EXPLANATORY NOTE

This Registration Statement on Form S-8 is being filed to register an additional 8,000,000 shares of the Registrant's Common Stock, par value \$1.00 per share, to be issued pursuant to the Solar Turbines Incorporated Savings and Investment Plan (the "Plan"). In accordance with General Instruction E to Form S-8, the Registrant and the Plan hereby incorporate by reference the contents of the following Registration Statement previously filed by the Registrant and the Plan:

- Registration Statement on Form S-8 (Registration No. 333-133275) filed April 13, 2006.

## Part II

## INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 8. Exhibits.

The following is a complete list of exhibits filed as a part of this Registration Statement:

Exhibit No.	Description
<u>23.1</u>	Consent of PricewaterhouseCoopers LLP

The Company will submit or has submitted the Plan and any amendment to the Plan to the Internal Revenue Service (the "IRS") in a timely manner and has made or will make all changes required by the IRS in order to qualify the Plan under Section 401 of the Internal Revenue Code of 1986, as amended.

Page 2

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant certifies that it has reasonable grounds to believe that it meets all the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Peoria, and the State of Illinois.

CATERPILLAR INC.  
(Registrant)

August 16, 2010                                      By:                                      /s/James B. Buda  
James B. Buda, Secretary

Pursuant to the requirements of the Securities Act of 1933, as amended, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

August 16, 2010                                      /s/James W. Owens  
(James W. Owens)                                      Chairman of the Board and  
Director

August 16, 2010                                      /s/Douglas R. Oberhelman  
(Douglas R. Oberhelman)                                      Chief Executive Officer and  
Director

August 16, 2010                                      /s/Richard P. Lavin  
(Richard P. Lavin)                                      Group President

August 16, 2010                                      /s/Stu L. Levenick  
(Stu L. Levenick)                                      Group President

August 16, 2010                                      /s/Edward J. Rapp  
(Edward J. Rapp)                                      Group President and Chief  
Financial Officer

August 16, 2010                                      /s/Gerard R. Vittecoq  
(Gerard R. Vittecoq)                                      Group President

August 16, 2010                                      /s/Steven H. Wunning  
(Steven H. Wunning)                                      Group President

August 16, 2010	/s/Jananne A. Copeland (Jananne A. Copeland)	Controller and Chief Accounting Officer
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Page 3

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August 16, 2010	/s/W. Frank Blount (W. Frank Blount)	Director
August 16, 2010	/s/John R. Brazil (John R. Brazil)	Director
August 16, 2010	/s/Daniel M. Dickinson (Daniel M. Dickinson)	Director
August 16, 2010	/s/John T. Dillon (John T. Dillon)	Director
August 16, 2010	/s/Eugene V. Fife (Eugene V. Fife)	Director
August 16, 2010	/s/Gail D. Fosler (Gail D. Fosler)	Director
August 16, 2010	/s/Juan Gallardo (Juan Gallardo)	Director
August 16, 2010	/s/David R. Goode (David R. Goode)	Director
August 16, 2010	/s/Peter A. Magowan (Peter A. Magowan)	Director
August 16, 2010	/s/William A. Osborn (William A. Osborn)	Director
August 16, 2010	/s/Charles D. Powell (Charles D. Powell)	Director
August 16, 2010	/s/Edward B. Rust, Jr. (Edward B. Rust, Jr.)	Director
August 16, 2010	/s/Susan C. Schwab (Susan C. Schwab)	Director
August 16, 2010	/s/Joshua I. Smith (Joshua I. Smith)	Director

Page 4

Pursuant to the requirements of the Securities Act of 1933, as amended, the trustees (or other persons who administer the Plan) have duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto authorized, in the City of Peoria, the State of Illinois.

SOLAR TURBINES INCORPORATED  
SAVINGS AND INVESTMENT PLAN

August 16, 2010

By:

/s/Jonathan D. Ginzel  
Name: Jonathan D. Ginzel  
Title: Plan Administrator

Page 5

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Exhibit Index

Exhibit No. Description

23.1 Consent of PricewaterhouseCoopers LLP

Page 6

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