

CATERPILLAR INC  
Form S-8  
August 17, 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)

Caterpillar 401(k) Plan  
(Full Title of the Plan)

James B. Buda  
Vice President, Secretary and Chief Legal Officer  
Caterpillar Inc.  
100 NE Adams Street  
Peoria, IL 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	55,000,000 shares (1)	\$67.39 (2)	\$3,706,450,000	\$264,269.89

(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.

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Part I

EXPLANATORY NOTE

This Registration Statement on Form S-8 is being filed to register an additional 55,000,000 shares of the Registrant's Common Stock, par value \$1.00 per share, to be issued pursuant to the Caterpillar 401(k) Plan, as amended (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 Statements previously filed by the Registrant and the Plan:

- Registration Statement on Form S-8 (Registration No. 333-111355) filed December 19, 2003, as amended by Post-Effective Amendment No. 1 to Form S-8 filed November 19, 2004; and
- Registration Statement on Form S-8 (Registration No. 333-133265) 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



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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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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                      Director  
(Susan C. Schwab)

August 16, 2010                      /s/Joshua I. Smith                      Director  
(Joshua I. Smith)

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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.

CATERPILLAR 401(k) PLAN

August 16, 2010                      By:                      /s/Jonathan D. Ginzel  
Name: Jonathan D. Ginzel  
Title: Plan Administrator

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Exhibit Index

Exhibit No.	Description
23.1	Consent of PricewaterhouseCoopers LLP

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