

DOW CHEMICAL CO /DE/  
Form S-8 POS  
February 23, 2010

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

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POST-EFFECTIVE AMENDMENT NO. 1 to

Form S-8

REGISTRATION STATEMENT

UNDER THE SECURITIES ACT OF 1933

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THE DOW CHEMICAL COMPANY

(a Delaware corporation)

Executive Offices -- 2030 Dow Center

Midland, Michigan 48674

(Name, state of incorporation and address of principal executive office of registrant)

I.R.S. Employer Identification No. 38-1285128

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THE DOW CHEMICAL COMPANY

2003-2013 EMPLOYEES' STOCK PURCHASE PLAN

(Full title of the plan)

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Charles J. Kalil

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Executive Vice President, General Counsel

and Corporate Secretary

THE DOW CHEMICAL COMPANY

2030 Dow Center

Midland, Michigan 48674

(Name and address of agent for service)

Telephone: (989) 636-1000

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This Post-Effective Amendment No. 1 is being filed to amend Registration Statement No. 333-155074 on Form S-8 pursuant to which the Registrant registered 10,000,000 shares of its Common Stock, par value \$2.50 per share (the "Stock"), for sale through the 2009 tranche of The Dow Chemical Company 2003-2013 Employees' Stock Purchase Plan (the "Plan"). After the Registration Statement was filed and became effective, eligible employees purchased 6,566,402 shares of the Stock under the provisions of the Plan. Accordingly, the Registrant hereby deregisters the remaining 3,433,598 shares of the Stock.

SIGNATURES

*The Registrant.* Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this amendment to Registration Statement No. 333-155074 to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Midland, State of Michigan, on February 23, 2010.

THE DOW CHEMICAL COMPANY

(Registrant)

By: /s/ RONALD C. EDMONDS

Ronald C. Edmonds

Vice President and Controller