NOVO NORDISK A S
Form 6-K
August 11, 2009

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 6-K

REPORT OF FOREIGN ISSUER

Pursuant to Rule 13a-16 or 15d-16
of the Securities Exchange Act of 1934

August 11, 2009

NOVO NORDISK A/S
(Exact name of Registrant as specified in its charter)

NOVO ALLE
DK-2880, BAGSVAERD
DENMARK
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F

Form 20-F [X]   Form 40-F [ ]

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes [ ]   No [X]

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g-32(b):82-_____________________

TRANSACTION IN OWN SHARES

NOVO NORDISK A/S - SHARE REPURCHASE PROGRAMME

On 29 January 2009, Novo Nordisk A/S, as part of the overall share repurchase programme for the period 2006-2009, initiated a share repurchase programme in accordance with the provisions of the European Commission's regulation no 2273/2003 of 22 December 2003, also referred to as the Safe Harbour rules.

Under the programme Novo Nordisk A/S has repurchased B shares for an amount of DKK 3.0 billion in the period from 29 January 2009 to 5 August 2009. Consequently, the programme has been concluded on 5 August 2009. Since the announcement as of 3 August 2009, the following transactions have been made under the programme:

	NUMBER OF SHARES	AVERAGE PURCHASE PRICE	TRANSACTION VALUE, DKK
ACCUMULATED, LAST ANNOUNCEMENT	10,439,882		2,928,714,334
3 August 2009	77,400	306.9000	23,754,060
4 August 2009	77,900	304.9700	23,757,163
5 August 2009	75,000	313.6500	23,523,750
ACCUMULATED UNDER THE PROGRAMME	10,670,182		2,999,749,307

Transactions related to Novo Nordisk's incentive programmes have resulted in a net sale by Novo Nordisk of 63,600 B shares in the period from 3 August 2009 to 6 August 2009. The shares in these transactions were not part of the Safe Harbour repurchase programme. With the transactions stated above, Novo Nordisk owns a total of 21,398,641 treasury shares, corresponding to 3.5% of the share capital. The total amount of shares in the company is 620,000,000 including treasury shares.

Novo Nordisk is a healthcare company and a world leader in diabetes care. In addition, Novo Nordisk has a leading position within areas such as haemostasis management, growth hormone therapy and hormone replacement therapy. Novo Nordisk manufactures and markets pharmaceutical products and services that make a significant difference to patients, the medical profession and society. With headquarters in Denmark, Novo Nordisk employs more than 27,900 employees in 81 countries, and markets its products in 179 countries. Novo Nordisk's B shares are listed on the stock exchanges in Copenhagen and London. Its ADRs are listed on the New York Stock Exchange under the symbol 'NVO'. For more information, visit novonordisk.com.

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Company Announcement no 47 / 2009

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf of the undersigned, thereunto duly authorized.

Date: August 11, 2009

NOVO NORDISK A/S

Lars Rebien Sorensen,
President and Chief Executive Officer