

NOVO NORDISK A S
Form 6-K
May 26, 2010

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER

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

MAY 26, 2010

NOVO NORDISK A/S

(Exact name of Registrant as specified in its charter)

Novo Allé

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 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

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

Company Announcement

25 May 2010

Novo Nordisk A/S – Share repurchase programme

On 27 April 2010 Novo Nordisk initiated its 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 will repurchase B shares for an amount up to DKK 2.5 billion in the period from 27 April 2010 to 3 August 2010.

Since the announcement as of 17 May 2010, the following transactions have been made under the programme:

	Number of shares	Average purchase price	Transaction value, DKK
Accumulated, last announcement	950,500		439,079,282
17 May 2010	52,500	469.9820	24,674,055
18 May 2010	72,500	476.8651	34,572,720
19 May 2010	77,000	467.0950	35,966,315
20 May 2010	165,000	457.4987	75,487,286
21 May 2010	143,000	442.6057	63,292,615
Accumulated under the programme	1,460,500		673,072,272

Transactions related to Novo Nordisk's incentive programmes have resulted in a net sale by Novo Nordisk of 2,000 B shares in the period from 17 May 2010 to 21 May 2010. The shares in these transactions were not part of the Safe Harbour repurchase programme.

Company Announcement no 27 / 2010

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Novo Nordisk A/S	Novo Allé	Telephone:	Internet:	CVR no:
Investor Relations	2880 Bagsværd	+45 4444 8888	novonordisk.com	24256790
	Denmark	Telefax:		

With the transactions stated above, Novo Nordisk owns a total of 36,210,372 treasury shares, corresponding to 5.8% of the share capital. The total amount of shares in the company is 620,000,000 including treasury shares.

Novo Nordisk is a global healthcare company with 87 years of innovation and leadership in diabetes care. The company also has leading positions within haemophilia care, growth hormone therapy and hormone replacement therapy. Headquartered in Denmark, Novo Nordisk employs more than 29,300 employees in 76 countries, and markets its products in 179 countries. Novo Nordisk's B shares are listed on the NASDAQ OMX Copenhagen (Novo-B). Its ADRs are listed on the New York Stock Exchange (NVO). For more information, visit novonordisk.com.

Further information:

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		+45 4444 6626		

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: MAY 26, 2010

NOVO NORDISK A/S

Lars Rebien Sørensen,

President and Chief Executive Officer
