

Report Pursuant to Section 28a of the Danish Securities Trading Act

Company Announcement

Copenhagen, Denmark; December 15, 2014 — Pursuant to Section 28a of the Danish Securities Trading Act, Genmab A/S (OMX: GEN) hereby, on behalf of managerial employees, makes public information on transactions by managerial employees and their related parties involving Genmab shares and related instruments, as follows:

Name: Mats Pettersson
Reason: Chairman of the Board of Directors
Issuer: Genmab A/S
ID code/ISIN: DK0010272202
Description: Restricted Stock Units
Transaction: Grant
Trading date: December 15, 2014
Market: NASDAQ OMX Copenhagen A/S
Number: 2,300
Value: DKK 776,020

Name: Anders Gersel Pedersen
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ISIN: DK0010272202
Description: Restricted Stock Units
Transaction: Grant
Trading date: December 15, 2014
Market: NASDAQ OMX Copenhagen A/S
Number: 1,725
Value: DKK 582,015

Name: Nedjad Losic
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ISIN: DK0010272202
Description: Restricted Stock Units
Transaction: Grant
Trading date: December 15, 2014
Market: NASDAQ OMX Copenhagen A/S
Number: 1,150
Value: DKK 388,010

Name: Burton G. Malkiel
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ISIN: DK0010272202
Description: Restricted Stock Units
Transaction: Grant
Trading date: December 15, 2014
Market: NASDAQ OMX Copenhagen A/S
Number: 1,150
Value: DKK 388,010

Name: Hans Henrik Munch-Jensen
Reason: Member of the Board of Directors

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Transaction: Grant
Trading date: December 15, 2014
Market: NASDAQ OMX Copenhagen A/S
Number: 1,150
Value: DKK 388,010

Name: Tom Vink
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ISIN: DK0010272202
Description: Restricted Stock Units
Transaction: Grant
Trading date: December 15, 2014
Market: NASDAQ OMX Copenhagen A/S
Number: 1,150
Value: DKK 388,010

Name: Jan G. J. van de Winkel
Reason: President & Chief Executive Officer
Issuer: Genmab A/S
ID code/ISIN: DK0010272202
Description: Restricted Stock Units
Transaction: Grant
Trading date: December 15, 2014
Market: NASDAQ OMX Copenhagen A/S
Number: 22,400
Value: DKK 7,557,760

Name: David A. Eatwell
Reason: Executive Vice President & Chief Financial Officer
Issuer: Genmab A/S
ID code/ISIN: DK0010272202
Description: Restricted Stock Units
Transaction: Grant
Trading date: December 15, 2014
Market: NASDAQ OMX Copenhagen A/S
Number: 13,325
Value: DKK 4,495,855

Name: Jan G. J. van de Winkel
Reason: President & Chief Executive Officer
Issuer: Genmab A/S
ID code/ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: December 15, 2014
Market: NASDAQ OMX Copenhagen A/S
Number: 14,900
Value: DKK 1,889,022

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Name: David A. Eatwell
Reason: Executive Vice President & Chief Financial Officer
Issuer: Genmab A/S
ID code/ISIN: DK0010272202
Description: Warrants
Transaction: Grant
Trading date: December 15, 2014
Market: NASDAQ OMX Copenhagen A/S
Number: 8,875
Value: DKK 1,125,172.50

About Genmab A/S

Genmab is a publicly traded, international biotechnology company specializing in the creation and development of differentiated human antibody therapeutics for the treatment of cancer. Founded in 1999, the company currently has one marketed antibody, Arzerra® (ofatumumab) for the treatment of certain chronic lymphocytic leukemia indications and daratumumab in late stage clinical development for multiple myeloma. Additionally Genmab has a clinical pipeline with both late and early stage programs, and an innovative pre-clinical pipeline. Genmab's technology base consists of validated and proprietary next generation antibody technologies - the DuoBody® platform for generation of bispecific antibodies, and the HexaBody™ platform which creates effector function enhanced antibodies. Genmab's deep antibody expertise is expected to provide a stream of future product candidates. Partnering of selected innovative product candidates and technologies is a key focus of Genmab's strategy and the company has alliances with top tier pharmaceutical and biotechnology companies. For more information visit www.genmab.com

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This Company Announcement contains forward looking statements. The words "believe", "expect", "anticipate", "intend" and "plan" and similar expressions identify forward looking statements. Actual results or performance may differ materially from any future results or performance expressed or implied by such statements. The important factors that could cause our actual results or performance to differ materially include, among others, risks associated with pre-clinical and clinical development of products, uncertainties related to the outcome and conduct of clinical trials including unforeseen safety issues, uncertainties related to product manufacturing, the lack of market acceptance of our products, our inability to manage growth, the competitive environment in relation to our business area and markets, our inability to attract and retain suitably qualified personnel, the unenforceability or lack of protection of our patents and proprietary rights, our relationships with affiliated entities, changes and developments in technology which may render our products obsolete, and other factors. For a further discussion of these risks, please refer to the risk management sections in Genmab's most recent financial reports, which are available on www.genmab.com. Genmab does not undertake any obligation to update or revise forward looking statements in this Company Announcement nor to confirm such statements in relation to actual results, unless required by law.

Genmab A/S and its subsidiaries own the following trademarks: Genmab®, the Y-shaped Genmab logo®, Genmab in combination with the Y-shaped Genmab logo™; the DuoBody logo™; the HexaBody logo™; HuMax®, HuMax-CD20®, DuoBody®, HexaBody™ and UniBody®. Arzerra® is a registered trademark of the GSK group of companies.