

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

Company Announcement

Copenhagen, Denmark; February 24, 2016 – In accordance with Section 28a of the Danish Securities Trading Act, the company’s board members and executives have given Genmab A/S (Nasdaq Copenhagen: GEN) power of attorney on their behalf to publish trading in Genmab shares and related instruments by the company’s board members, executives and their related parties, as follows:

Name: Anders Gersel Pedersen
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ISIN: DK0010272202
Description: Shares
Transaction: Purchase (exercise of warrants)
Trading date: February 24, 2016
Market: Nasdaq Copenhagen A/S
Number: 22,500
Value: DKK 6,585,000

Name: Burton G. Malkiel
Reason: Member of the Board of Directors
Issuer: Genmab A/S
ID code/ISIN: DK0010272202
Description: Shares
Transaction: Purchase (exercise of warrants)
Trading date: February 24, 2016
Market: Nasdaq Copenhagen A/S
Number: 12,000
Value: DKK 3,264,000

About Genmab

Genmab is a publicly traded, international biotechnology company specializing in the creation and development of differentiated antibody therapeutics for the treatment of cancer. Founded in 1999, the company has two approved antibodies, Arzerra® (ofatumumab) for the treatment of certain chronic lymphocytic leukemia indications and DARZALEX™ (daratumumab) for the treatment of heavily pretreated or double refractory multiple myeloma. Daratumumab is in clinical development for additional multiple myeloma indications and for non-Hodgkin’s lymphoma. Genmab also has a broad clinical and pre-clinical product 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. The company intends to leverage these technologies to create opportunities for full or co-ownership of future products. Genmab has alliances with top tier pharmaceutical and biotechnology companies. For more information visit www.genmab.com.

Contact:

Rachel Curtis Gravesen, Senior Vice President, Investor Relations & Communications
T: +45 33 44 77 20; M: +45 25 12 62 60; E: r.gravesen@genmab.com

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

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

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 trademark of Novartis AG or its affiliates. DARZALEX[™] is a trademark of Janssen Biotech, Inc.