

PRESS RELEASE

Besi Announces Transactions Under Share Repurchase Program

Duiven, the Netherlands, February 8, 2013 - BE Semiconductor Industries N.V. (the "Company" or "Besi") (NYSE Euronext: BESI; OTCQX: BESIY), a leading manufacturer of assembly equipment for the semiconductor industry, today announced that it repurchased 43,817 of its ordinary shares during the period from Thursday January 31, 2013 up to and including Friday February 8, 2013 at a weighted average price of € 5.80 for a total purchase amount of € 254,014. Since October 24, 2012, Besi has purchased a total of 195,447 of its ordinary shares at a weighted average price of € 5.34 for a total purchase amount of € 1,044,297.

The share repurchases are part of a buy-back program announced on October 23, 2012 according to which the Company may repurchase up to a maximum of approximately 1.5 million ordinary shares from time to time until 25 October 2013. The repurchase program is implemented in accordance with industry best practices and in compliance with applicable buyback rules and regulations. The Company has engaged an independent broker for the program and all purchases will be executed through Euronext Amsterdam. Besi is engaging in the repurchase program to enhance shareholder value in light of the current price of its shares relative to anticipated future earnings as well as to help further reduce share dilution from the conversion of its 5.5% Convertible Notes in June 2011.

Besi is a leading supplier of semiconductor assembly equipment for the global semiconductor and electronics industries. The Company develops leading edge assembly processes and equipment for leadframe, substrate and wafer level packaging applications in a wide range of end-user markets including electronics, computer, automotive, industrial, RFID, LED and solar energy. Customers are primarily leading semiconductor manufacturers, assembly subcontractors and electronics and industrial companies. Besi's ordinary shares are listed on NYSE Euronext Amsterdam (symbol: BESI) and OTCQX International (symbol: BESIY) and its headquarters are located in Duiven, the Netherlands. For more information, please visit our website at www.besi.com.

Contacts:

Richard W. Blickman
President & CEO
Tel. (31) 26 319 4500
investor.relations@besi.com

Cor te Hennepe
Senior Vice President Finance
Tel. (31) 26 319 4500
investor.relations@besi.com

Citigate First Financial
Uneke Dekkers/Frank Jansen
Tel. (31) 20 575 4021/24
Uneke.Dekkers@citigateff.nl
Frank.Jansen@citigateff.nl