



PRESS RELEASE

BE Semiconductor Industries Announces Transactions Under Share Repurchase Program

Duiven, the Netherlands, April 25, 2016 - BE Semiconductor Industries N.V. (the "Company" or "Besi") (Euronext Amsterdam: BESI; OTC markets: BESIY, Nasdaq International Designation), a leading manufacturer of assembly equipment for the semiconductor industry, today announced that it repurchased 24,500 of its ordinary shares during the period from Friday April 15, 2016 up to and including Monday April 25, 2016 at a weighted average price of € 24.47 for a total purchase amount of € 599,627. Since September 25, 2015, Besi has purchased a total of 554,831 of its ordinary shares at a weighted average price of € 19.23 for a total purchase amount of € 10,666,602. The share repurchases are part of a buy-back program announced on September 25, 2015.

About Besi

Besi is a leading supplier of semiconductor assembly equipment for the global semiconductor and electronics industries offering high levels of accuracy, productivity and reliability at a low cost of ownership. 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, mobile internet, computer, automotive, industrial, LED and solar energy. Customers are primarily leading semiconductor manufacturers, assembly subcontractors and electronics and industrial companies. Besi's ordinary shares are listed on Euronext Amsterdam (symbol: BESI). Its Level 1 ADRs are listed on the OTC markets (symbol: BESIY Nasdaq International Designation) 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
Cor te Hennepe, SVP Finance
Tel. (31) 26 319 4500
investor.relations@besi.com

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