ASML HOLDING NV Form 6-K October 31, 2012

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 6-K

REPORT OF A FOREIGN ISSUER

PURSUANT TO RULE 13A-16 OR 15D-16 OF

THE SECURITIES EXCHANGE ACT OF 1934

For October 31, 2012

ASML Holding N.V.

De Run 6501

5504 DR Veldhoven

The Netherlands

(Address of principal executive offices)

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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 x 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 x

If Yes is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b):

Exhibits

99.1 ASML issues shares to TSMC in connection with Customer Co-Investment Program, press release dated October 31, 2012 Safe Harbor Statement under the US Private Securities Litigation Reform Act of 1995: the matters discussed in this document include forward-looking statement relating to our co-investment program and our planned Synthetic Buyback. These forward looking statements are subject to risks and uncertainties including whether the 450mm and EUV research and development programs will be successful, ASML s ability to hire additional workers as part of the 450mm and EUV development programs, whether all conditions for the Synthetic Buyback will be fulfilled and other risks indicated in the risk factors included in ASML s Annual Report on Form 20-F and other filings with the US Securities and Exchange Commission.

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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 by the undersigned, thereunto duly authorized.

ASML HOLDING N.V. (Registrant)

Date: October 31, 2012 By: /s/ Peter T.F.M. Wennink

Peter T.F.M. Wennink Executive Vice President

and Chief Financial Officer

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