

ASML HOLDING NV  
Form 6-K  
February 01, 2011

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**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 February 1, 2011**

**ASML Holding N.V.**

De Run 6501

5504 DR Veldhoven

The Netherlands

*(Address of principal executive offices)*

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

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

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

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SIGNATURES

EX-99.1

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**Exhibits**

99.1 ASML Provides First Update on Share Buy Back Program, press release dated January 31, 2011

Safe Harbor Statement under the US Private Securities Litigation Reform Act of 1995: the matters discussed in this document may include forward-looking statements, including statements relating to the timing of, amounts purchased under, funding and methods of implementation of ASML's share buy back program. Actual events may differ materially from current expectations. These forward looking statements are subject to risks and uncertainties including, but not limited to, risks associated with ASML's ability to complete the share buy back program 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: February 1, 2011

By: /s/ Peter T.F.M. Wennink  
Peter T.F.M. Wennink  
Executive Vice President  
and Chief Financial Officer

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