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**FORM 6 - K**  
**SECURITIES AND EXCHANGE COMMISSION**  
Washington, DC 20549

**Report of Foreign Private Issuer**  
**Pursuant to Rule 13a - 16 or 15d - 16 under**  
**the Securities Exchange Act of 1934**

For the month of January 2011

Commission File Number 001-33159

**AERCAP HOLDINGS N.V.**  
(Translation of Registrant's Name into English)

**Stationsplein 965, 1117 CE Schiphol Airport, The Netherlands, +31-20-655-9655**  
(Address of Principal Executive Office)

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 if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Note: Regulation S-T Rule 101(b)(1) only permits the submission in paper of a Form 6-K if submitted solely to provide an attached annual report to security holders.

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

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 Act of 1934.

Yes

No

If "Yes" is marked, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82 — N/A

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**Other Events**

On January 4, 2011, AerCap Holdings N.V. announced that its subsidiary AeroTurbine signed an amendment to its credit facility. The amendment increases the total commitments available under the credit facility from \$328 million to \$425 million and allows for additional newer generation aircraft and engine types as eligible collateral under the facility.

This Form 6-K is incorporated by reference into the Company's Form F-3 Registration Statement File No. 333-155194 and Form S-8 Registration Statements File Nos. 333-154416 and 333-165839, and related Prospectuses, as such Registration Statements and Prospectuses may be amended from time to time.

**Exhibits**

99.1 AerCap Holdings N.V. Press Release

SIGNATURE

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.

AERCAP HOLDINGS N.V.

By: /s/ Klaus Heinemann

Name: Klaus Heinemann

Title: Authorized Signatory

Date: January 4, 2011

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**EXHIBIT INDEX**

99.1 AerCap Holdings N.V. Press Release.

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PRESS RELEASE

**AeroTurbine Signs \$425 Million Credit Facility**

Amsterdam; January 4, 2011 — AerCap Holdings N.V. (“AerCap,” NYSE: AER) announced today that its subsidiary AeroTurbine signed an amendment to its credit facility. The amendment increases the total commitments available under the credit facility from \$328 million to \$425 million and allows for additional newer generation aircraft and engine types as eligible collateral under the facility. The credit facility amendment was led by Credit Agricole Corporate and Investment Bank.

“The amendment to our credit facility is an important milestone in the continuing growth of AeroTurbine. The increased capacity and the inclusion of newer generation equipment represent a significant commercial advantage to AeroTurbine which will allow the company to aggressively pursue acquisitions of the most profitable aircraft, engines and parts inventory,” said Michael King, AeroTurbine President and Chief Executive Officer.

**About AerCap and AeroTurbine**

AerCap is the world’s leading independent aircraft leasing company. AeroTurbine is a subsidiary of AerCap focusing on engine leasing and trading, airframe and engine disassembly, aviation supply chain solutions, part sales and MRO services. AeroTurbine is headquartered in Miami with offices in Dallas, Phoenix, London and Singapore.

**This press release may contain forward-looking statements that involve risks and uncertainties. In most cases, you can identify forward-looking statements by terminology such as “may”, “should”, “expects”, “plans”, “anticipates”, “believes”, “estimates”, “predicts”, “potential” or “continue” or the negative of such terms or similar terminology. Such forward-looking statements are not guarantees of future performance and involve significant assumptions, risks and uncertainties, and actual results may differ materially from those in the forward-looking statements.**

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