

AerCap Holdings N.V.  
Form 6-K  
January 13, 2010

**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 2010**

**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  X

Form 40-F  O

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.

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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 12, 2010, AerCap Holdings N.V. released a summary of its completed transactions during the fourth quarter of 2009.

This form 6-K is incorporated by reference into the Company's form F-3 registration statement file no. 333-155194 and related prospectus, as such registration statement and prospectus may be amended from time to time, and is incorporated by reference into the Company's form S-8 registration statement file no. 333-154416, as such registration statement 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 12, 2010

**EXHIBIT INDEX**

99.1 AerCap Holdings N.V. Press Release.

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