# **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 February 2009

Commission File Number 001-33159

## **AERCAP HOLDINGS N.V.**

(Translation of Registrant's Name into English)

| (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  |
| Other Events  On February 5, 2009, AerCap Holdings N.V. announced that its subsidiary, AeroTurbine Inc., Miami, and Aveos, an aviation maintenance company, have entered into a five-year lease agreement whereby AeroTurbine will supply Aveos with certain aviation components.  Exhibits |
| 99.1 AerCap Holdings N.V. Press Release   |
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|   |
| 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:

Name:

Title:

/s/ Klaus Heinemann

Authorized Signatory

Klaus Heinemann

### EXHIBIT INDEX

99.1 AerCap Holdings N.V. Press Release.

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#### PRESS RELEASE

#### FOR IMMEDIATE RELEASE

#### AeroTurbine Signs Five Year Lease Agreement with Aveos for Aviation Components

Amsterdam and Miami; February 5, 2009 – AerCap Holdings N.V. ("AerCap," NYSE: AER) announced today that its subsidiary AeroTurbine Inc., Miami, has signed an agreement with aviation maintenance company Aveos, formerly "ACTS" and "Air Canada Technical Services", for an initial period of five years. Under this non-exclusive agreement, AeroTurbine will supply Aveos with certain engine and airframe components.

Initially, AeroTurbine will acquire and lease certain Airbus A320 and Boeing 737 rotables to Aveos. AeroTurbine will also lease additional inventory to Aveos to augment their current inventory. Aveos is authorized to position the material at various locations around the world to meet its customer needs.

"Following our agreement with British Airways last year, this transaction again demonstrates AeroTurbine's ability to contract long-term business in the inventory logistics arena with equally long-term revenue streams," said Michael King, AeroTurbine President and Chief Executive Officer. "We look forward to building upon an already strong business relationship with Aveos and together further increasing the market impact of our combined supply chain management capabilities."

"The agreements will further strengthen Aveos' rotables inventory to continue providing customers with efficient, integrated solutions for today's competitive marketplace, as well as providing support to the Engine Solutions unit," said Tom Wilson, Vice President, Component Maintenance and Business Development, Aveos. "We look forward to a continued relationship with AeroTurbine that has demonstrated flexibility in their ideas and solutions."

AeroTurbine and Aveos have also signed a five-year agreement under which Aveos will support AeroTurbine with engine repairs and overhaul for the CFM56-2/3 & -5 engine types.

### About AerCap and AeroTurbine

AerCap is an integrated global aviation company with a leading market position in aircraft and engine leasing, trading and parts sales. 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.

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#### **About Aveos**

Aveos is a full-service maintenance, repair and overhaul (MRO) provider of airframe, engine, component and maintenance solutions. From maintenance facilities across Canada and in El Salvador, Aveos provides integrated service solutions to over 100 customers, while focusing on building a robust network of strategic alliances (www.aveos.com).

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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