

Item 5.02. Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.

(b) On August 25, 2009, Ulrich (Rick) Schmidt, Executive Vice President and Chief Financial Officer of Spirit AeroSystems Holdings, Inc. (Spirit) notified Spirit of his decision to retire. His last working day at Spirit will be Friday, October 2, 2009, and he will remain an employee of Spirit through early December of 2009.

(c) Philip D. Anderson, Spirit s Treasurer and Vice President, Investor Relations, will assume the additional role of interim Chief Financial Officer, effective October 3, 2009, pending a search for Mr. Schmidt s replacement.

Mr. Anderson, 45, has served as Spirit s Treasurer and Vice President, Investor Relations since November 2006. In that capacity, he is responsible for Spirit s capital structure, cash management, insurance, pension investments, credit office and financial communications. Prior to joining Spirit, Mr. Anderson served as Director Corporate Finance and Banking of the Boeing Company (Boeing), from March 2004 until October 2006, where he led capital structure strategy development and implementation, and managed credit and capital markets transactions and relationships with financial institutions and credit agencies. Prior to that, Mr. Anderson held various finance and manufacturing positions at Boeing. Mr. Anderson received his Bachelor of Arts and Master of Business Administration degrees from Wichita State University.

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 hereunto duly authorized.

SPIRIT AEROSYSTEMS HOLDINGS, INC.

Date: August 26, 2009

/s/ Jonathan A. Greenberg

Jonathan A. Greenberg
Senior Vice President, General Counsel and
Secretary