

Stuhlsatz Douglas C.  
Form 3  
February 16, 2012

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,  
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
30(h) of the Investment Company Act of 1940

(Print or Type Responses)

|  |   |   |   |   |   |
|--|---|---|---|---|---|
| <p>1. Name and Address of Reporting Person *</p> <p>Stuhlsatz Douglas C.</p> <p>(Last) (First) (Middle)</p> <p>C/O SPIRIT AEROSYSTEMS HOLDINGS, INC., 3801 SOUTH OLIVER</p> <p>(Street)</p> <p>WICHITA, KS 67210</p> <p>(City) (State) (Zip)</p> | <p>2. Date of Event Requiring Statement</p> <p>(Month/Day/Year)</p> <p>02/10/2012</p> | <p>3. Issuer Name and Ticker or Trading Symbol</p> <p>Spirit AeroSystems Holdings, Inc. [SPR]</p> | <p>4. Relationship of Reporting Person(s) to Issuer</p> <p>(Check all applicable)</p> <p><input type="checkbox"/> Director <input type="checkbox"/> 10% Owner<br/><input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other<br/>(give title below) (specify below)<br/>Interim GC &amp; Acting Secretary</p> | <p>5. If Amendment, Date Original Filed(Month/Day/Year)</p> | <p>6. Individual or Joint/Group Filing(Check Applicable Line)</p> <p><input checked="" type="checkbox"/> Form filed by One Reporting Person<br/><input type="checkbox"/> Form filed by More than One Reporting Person</p> |
|--|---|---|---|---|---|

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security<br>(Instr. 4) | 2. Amount of Securities Beneficially Owned<br>(Instr. 4) | 3. Ownership Form:<br>Direct (D)<br>or Indirect (I)<br>(Instr. 5) | 4. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|------------------------------------|--|---|--|
| Class A Common Stock               | 6,799 <sup>(1)</sup>                                     | D   | ^  |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security<br>(Instr. 4) | 2. Date Exercisable and Expiration Date<br>(Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security<br>(Instr. 4) | 4. Conversion or Exercise Price of Derivative | 5. Ownership Form of Derivative Security: | 6. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|---|---|--|---|---|--|
|---|---|--|---|---|--|

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|                     |                    |       |                                  |          |  |
|---------------------|--------------------|-------|----------------------------------|----------|--|
| Date<br>Exercisable | Expiration<br>Date | Title | Amount or<br>Number of<br>Shares | Security | Direct (D)<br>or Indirect<br>(I)<br>(Instr. 5) |
|---------------------|--------------------|-------|----------------------------------|----------|--|

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |                                       |       |
|---|---------------|-----------|---------------------------------------|-------|
|   | Director      | 10% Owner | Officer                               | Other |
| Stuhlsatz Douglas C.<br>C/O SPIRIT AEROSYSTEMS HOLDINGS, INC.<br>3801 SOUTH OLIVER<br>WICHITA, KS 67210 | ^             | ^         | ^ Interim GC<br>& Acting<br>Secretary | ^     |

## Signatures

|  |            |
|--|------------|
| /s/ Joseph T. Boyle, as attorney-in-fact for Douglas C.<br>Stuhlsatz | 02/16/2012 |
| **Signature of Reporting Person                                      | Date       |

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, see Instruction 5(b)(v).
  - \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- Represents (i) 1,295 shares of restricted stock that will vest on February 24, 2012, (ii) 958 shares of restricted stock that will vest on May 4, 2012, (iii) 957 shares of restricted stock that will vest on May 4, 2013, (iv) 878 shares of restricted stock that will vest on May 10, 2013, (v) 957 shares of restricted stock that will vest on May 4, 2014, (vi) 877 shares of restricted stock that will vest on May 10, 2014, and (vii) 877 shares of restricted stock that will vest on May 10, 2015, in each case, if Mr. Stuhlsatz remains employed by the Issuer or any of its subsidiaries on each such vesting date.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, See Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.