

Flentje Gloria Farha
 Form 4
 September 16, 2010

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN 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)

1. Name and Address of Reporting Person *
 Flentje Gloria Farha

2. Issuer Name and Ticker or Trading Symbol
 Spirit AeroSystems Holdings, Inc.
 [SPR]

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)
 09/14/2010

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 SVP, Corp Admin, HR

C/O SPIRIT AEROSYSTEMS HOLDINGS, INC., 3801 SOUTH OLIVER

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

WICHITA, KS 67210

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
| | | | Code | V Amount (A) or (D) Price | | | |
| Class A Common Stock | 09/14/2010 | | C | 15,213 A (4) | 49,886 | D | |
| Class A Common Stock | 09/14/2010 | | S | 15,213 (1) D 19.62 (5) | 34,673 | D | |

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

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SEC 1474 (9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Class B Common Stock | (2) | 09/14/2010 | | C | 15,213 | 09/12/2010 (3) | Class A Common Stock | 15,213 |

Reporting Owners

| Reporting Owner Name / Address | Relationships |
|---|--|
| Flentje Gloria Farha C/O SPIRIT AEROSYSTEMS HOLDINGS, INC. 3801 SOUTH OLIVER WICHITA, KS 67210 | Director 10% Owner Officer SVP, Corp Admin, HR |

Signatures

/s/ Joseph T. Boyle, as attorney-in-fact for Gloria Farha
Flentje
09/16/2010

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(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).
- (1) Constitutes shares sold solely to satisfy the filer's tax obligations under the Issuer's Executive Incentive Plan (as generally described in the Issuer's Form 8-K filed on October 22, 2008).
 - (2) Upon vesting, each share of Class B common stock, par value \$0.01 of the Issuer (the "Class B Common Stock") is convertible at any time, at the option of the holder, into one share of Class A common stock, par value \$0.01, of the Issuer (the "Class A Common Stock").
 - (3) No expiration.
 - (4) Conversion without consideration.
- The price reported reflects a weighted average price. This transaction was executed in multiple trades at pricing ranging from 19.47 to 20.01. The Reporting Person hereby undertakes to provide upon request to the SEC staff, the Issuer or a security holder of the Issuer full information regarding the number of shares and prices at which the transaction was effected.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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