

AEROFLEX HOLDING CORP.  
 Form 3  
 November 18, 2010

**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)

|   |         |                                      |  |  |
|---|---------|--------------------------------------|--|--|
| 1. Name and Address of Reporting Person *         |         | 2. Date of Event Requiring Statement | 3. Issuer Name <b>and</b> Ticker or Trading Symbol                     |  |
| Â CARUSO CARL                                     |         | (Month/Day/Year)                     | AEROFLEX HOLDING CORP. [ARX]   |  |
| (Last)  | (First) | (Middle)                             | 11/18/2010   |  |
| C/O AEROFLEX INCORPORATED,Â 35 SOUTH SERVICE ROAD |         |                                      | 4. Relationship of Reporting Person(s) to Issuer                       | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| (Street)  |         |                                      | (Check all applicable)   |  |
| PLAINVIEW,Â NYÂ 11803                             |         |                                      | <input type="checkbox"/> Director                                      | <input type="checkbox"/> 10% Owner                   |
| (City)  | (State) | (Zip)                                | <input checked="" type="checkbox"/> Officer                            | <input type="checkbox"/> Other                       |
|   |         |                                      | (specify below)  |  |
|   |         |                                      | Vice President-Manufacturing   |  |
|   |         |                                      | 6. Individual or Joint/Group Filing(Check Applicable Line)             |  |
|   |         |                                      | <input checked="" type="checkbox"/> Form filed by One Reporting Person |  |
|   |         |                                      | <input type="checkbox"/> Form filed by More than One Reporting Person  |  |

**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) |
|---|--|---|--|
| Common Stock, par value \$.01 per share | 96,035   | I   | See Note <sup>(1)</sup>                                  |

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

SEC 1473 (7-02)

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

**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 |
| CARUSO CARL<br>C/O AEROFLEX INCORPORATED<br>35 SOUTH SERVICE ROAD<br>PLAINVIEW, NY 11803 | Â             | Â         | Â Vice President-Manufacturing | Â     |

## Signatures

/s/ Carl Caruso                      11/18/2010  
 \_\_Signature of                      Date  
 Reporting Person

## 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).
- (1) These shares of common stock, par value \$.01 per share ("Common Stock"), of Aeroflex Holding Corp. are held by VGG Holding LLC ("VGG") and are owned indirectly by the Reporting Person by virtue of the Reporting Person's Class B membership interest in VGG.

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.