

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| OMB APPROVAL | |
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|---|---------|----------|--|--|--|---|--|--|
| 1. Name and Address of Reporting Person * BUCCI VINCENT | | | 2. Issuer Name and Ticker or Trading Symbol ANGIODYNAMICS INC [ANGO] | | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below) | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) 08/06/2008 | | | 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person | | |
| 603 QUEENSBURY AVE. | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | |
| (Street) QUEENSBURY NY 12804 | | | | | | | | |
| (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 Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|-------|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock | | | | | | | | 21,079 | D | |

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 Securities Underlying Derivative Security (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----|--|-----------------|---|--|--|---|--|-------|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | | | | | | Title |
| Non-Qualified Stock Option (right to buy) | \$15.27 | 08/06/2008 | | A | | 6,000 | | 08/06/2009 ⁽¹⁾ | 08/06/2015 | Common Stock | 6,000 | \$0 | 6,000 | D | |
| Non-Qualified Stock Option (right to buy) ⁽²⁾ | \$5.8 | | | | | | | 01/29/2007 | 03/16/2009 | Common Stock | 3,767 | | 3,767 | D | |
| Non-Qualified Stock Option (right to buy) ⁽²⁾ | \$15.67 | | | | | | | 01/29/2007 | 05/01/2013 | Common Stock | 5,166 | | 5,166 | D | |
| Non-Qualified Stock Option (right to buy) | \$16.53 | | | | | | | 05/01/2008 ⁽³⁾ | 05/01/2014 | Common Stock | 25,000 | | 25,000 | D | |
| Non-Qualified Stock Option (right to buy) ⁽²⁾ | \$16.55 | | | | | | | 01/29/2007 | 06/08/2015 | Common Stock | 6,027 | | 6,027 | D | |
| Non-Qualified Stock Option (right to buy) | \$17.76 | | | | | | | 07/27/2008 ⁽⁴⁾ | 07/27/2017 | Common Stock | 6,000 | | 6,000 | D | |
| Non-Qualified Stock Option (right to buy) ⁽²⁾ | \$17.82 | | | | | | | 01/29/2007 | 04/18/2015 | Common Stock | 4,305 | | 4,305 | D | |

**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 Securities Underlying Derivative Security (Instr. 3 and 4) | | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----|--|-----------------|---|----------------------------|--|--|---|--|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | | |
| Non-Qualified Stock Option (right to buy) ⁽²⁾ | \$19.16 | | | | | | | 01/29/2007 | 06/26/2013 | Common Stock | 1,722 | | 1,722 | D | |
| Non-Qualified Stock Option (right to buy) ⁽²⁾ | \$19.57 | | | | | | | 01/29/2007 | 07/29/2014 | Common Stock | 1,722 | | 1,722 | D | |
| Non-Qualified Stock Option (right to buy) ⁽²⁾ | \$22.06 | | | | | | | 01/29/2007 | 06/07/2016 | Common Stock | 6,207 | | 6,207 | D | |
| Non-Qualified Stock Option (right to buy) ⁽²⁾ | \$29.09 | | | | | | | 01/29/2007 | 06/13/2011 | Common Stock | 1,205 | | 1,205 | D | |
| Non-Qualified Stock Option (right to buy) ⁽²⁾ | \$56.91 | | | | | | | 01/29/2007 | 05/30/2012 | Common Stock | 1,722 | | 1,722 | D | |

Explanation of Responses:

- Options for 33 1/3 of the shares are each exercisable on 8/6/09, 8/6/10, and 8/6/11 respectively
- Options to acquire .1722 shares of AngioDynamics common stock were received in exchange for options to acquire 1 share of RITA Medical Systems, Inc., in conjunction with AngioDynamics acquisition of RITA Medical on January 29, 2007. Upon exercise, the option holder is also entitled to \$.515 per original RITA share, or \$2.99 per AngioDynamics share exercised.
- Options for 33 1/3% of the shares are each exercisable on 5/1/08, 5/1/09, 5/1/10, respectively.
- Options for 25% of the total number of shares each become exercisable on 7/27/08, 7/27/09, 7/27/10, and 7/27/11.

By: K. Wayne McDougall For: 08/08/2008
Vincent Bucci

** Signature of Reporting Person Date

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

* 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).

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

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 Number.