

Greiner Charles R  
Form 3  
December 10, 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)

|                                           |         |                                                                            |                                                                                  |                                                                        |
|-------------------------------------------|---------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1. Name and Address of Reporting Person * |         | 2. Date of Event Requiring Statement                                       | 3. Issuer Name and Ticker or Trading Symbol                                      |                                                                        |
| Â Greiner Charles R                       |         | (Month/Day/Year)                                                           | ANGIODYNAMICS INC [ANGO]                                                         |                                                                        |
| (Last)                                    | (First) | (Middle)                                                                   | 10/26/2012                                                                       |                                                                        |
| 14 PLAZA DRIVE                            |         | 4. Relationship of Reporting Person(s) to Issuer                           |                                                                                  | 5. If Amendment, Date Original Filed(Month/Day/Year)                   |
| (Street)                                  |         | (Check all applicable)                                                     |                                                                                  | 6. Individual or Joint/Group Filing(Check Applicable Line)             |
| LATHAM,Â NYÂ 12110                        |         | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner       |                                                                                  | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
| (City)                                    | (State) | (Zip)                                                                      | <input checked="" type="checkbox"/> Form filed by More than One Reporting Person |                                                                        |
|                                           |         | <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other |                                                                                  |                                                                        |
|                                           |         | (give title below) (specify below)                                         |                                                                                  |                                                                        |
|                                           |         | VP - Global Franchise                                                      |                                                                                  |                                                                        |

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

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------|
| Common Stock                    | 7,512                                                 | D                                                        | Â                                                     |
| Common Stock                    | 1,875 <sup>(1)</sup>                                  | D                                                        | Â                                                     |
| Common Stock                    | 3,050 <sup>(2)</sup>                                  | D                                                        | Â                                                     |
| Common Stock                    | 4,650 <sup>(3)</sup>                                  | D                                                        | Â                                                     |
| Common Stock                    | 7,000 <sup>(4)</sup>                                  | D                                                        | Â                                                     |

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)**

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| 1. Title of Derivative Security<br>(Instr. 4) | 2. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |                    | 3. Title and Amount of<br>Securities Underlying<br>Derivative Security<br>(Instr. 4) |                                  | 4. Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 5. Ownership<br>Form of<br>Derivative<br>Security:<br>Direct (D)<br>or Indirect<br>(I)<br>(Instr. 5) | 6. Nature of Indirect<br>Beneficial<br>Ownership<br>(Instr. 5) |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|                                               | Date<br>Exercisable                                            | Expiration<br>Date | Title                                                                                | Amount or<br>Number of<br>Shares |                                                                    |                                                                                                      |                                                                |
| Non-Qualified Stock<br>Option (right to buy)  | Â (5)                                                          | 07/20/2014         | Common<br>Stock                                                                      | \$ 4,373                         | \$ 13.18                                                           | D                                                                                                    | Â                                                              |
| Non-Qualified Stock<br>Option (right to buy)  | Â (6)                                                          | 01/18/2015         | Common<br>Stock                                                                      | 400                              | \$ 20.7                                                            | D                                                                                                    | Â                                                              |
| Non-Qualified Stock<br>Option (right to buy)  | Â (7)                                                          | 07/29/2015         | Common<br>Stock                                                                      | 3,700                            | \$ 24.21                                                           | D                                                                                                    | Â                                                              |
| Non-Qualified Stock<br>Option (right to buy)  | Â (8)                                                          | 08/15/2016         | Common<br>Stock                                                                      | 4,700                            | \$ 18.4                                                            | D                                                                                                    | Â                                                              |
| Non-Qualified Stock<br>Option (right to buy)  | Â (9)                                                          | 08/06/2015         | Common<br>Stock                                                                      | 14,100                           | \$ 15.27                                                           | D                                                                                                    | Â                                                              |
| Non-Qualified Stock<br>Option (right to buy)  | Â (10)                                                         | 07/27/2014         | Common<br>Stock                                                                      | 9,300                            | \$ 17.76                                                           | D                                                                                                    | Â                                                              |

## Reporting Owners

| Reporting Owner Name / Address                          | Relationships |           |                         |       |
|---------------------------------------------------------|---------------|-----------|-------------------------|-------|
|                                                         | Director      | 10% Owner | Officer                 | Other |
| Greiner Charles R<br>14 PLAZA DRIVE<br>LATHAM, NY 12110 | Â             | Â         | Â VP - Global Franchise | Â     |

## Signatures

/s/ Stephen A. Trowbridge, Attorney  
in Fact

12/10/2012

\_\_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).
- (1) Represents 1,875 restricted stock units, each of which represents a contingent right to receive one share of AngioDynamics, Inc. common stock. The restricted stock units vest in four equal annual installments beginning on 09/04/2010.
  - (2) Represents 3,050 restricted stock units, each of which represents a contingent right to receive one share of AngioDynamics, Inc. common stock. The restricted stock units vest in four equal annual installments beginning on 08/03/2011.
  - (3) Represents 4,650 restricted stock units, each of which represents a contingent right to receive one share of AngioDynamics, Inc. common stock. The restricted stock units vest in four equal annual installments beginning on 08/03/2012.
  - (4) Represents 7,000 restricted stock units, each of which represents a contingent right to receive one share of AngioDynamics, Inc. common stock. The restricted stock units vest in four equal annual installments beginning on 08/03/2013.

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- (5) Options for 25% of the shares became exercisable on 07/20/2005, 07/20/2006, 07/20/2007 and 07/20/2008.
- (6) Options for 25% of the shares became exercisable on 01/18/2006, 01/18/2007, 01/18/2008 and 01/18/2009.
- (7) Options for 25% of the shares became exercisable on 07/29/2006, 07/29/2007, 07/29/2008 and 07/29/2009.
- (8) Options for 25% of the shares became exercisable on 08/15/2007, 08/15/2008, 08/15/2009 and 08/15/2010.
- (9) Options for 25% of the shares became exercisable on 08/06/2009, 08/06/2010, 08/06/2011 and 08/06/2012.
- (10) Options for 25% of the shares became exercisable on 07/27/2008, 07/27/2009, 07/27/2010 and 07/27/2011.

Â

**Remarks:**

ExhibitÂ List:Â Â ExhibitÂ 24.1Â -Â PowerÂ ofÂ Attorney

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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