

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF  
SECURITIESFiled pursuant to Section 16(a) of the Securities Exchange Act of 1934  
or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>BUCCI VINCENT</u>	2. Date of Event Requiring Statement (Month/Day/Year) 01/29/2007	3. Issuer Name and Ticker or Trading Symbol <u>ANGIODYNAMICS INC [ ANGO ]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)	5. If Amendment, Date of Original Filed (Month/Day/Year)  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
(Last) (First) (Middle) 603 QUEENSBURY AVE.			
(Street) QUEENSBURY NY 12804			
(City) (State) (Zip)			

## 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	21,079 <sup>(1)</sup>	D	

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Non-Qualified Stock Option (right to buy) <sup>(2)</sup>	01/29/2007	03/16/2009	Common Stock	3,767	5.8	D	
Non-Qualified Stock Option (right to buy) <sup>(2)</sup>	01/29/2007	05/01/2013	Common Stock	5,166	15.67	D	
Non-Qualified Stock Option (right to buy) <sup>(2)</sup>	01/29/2007	06/08/2015	Common Stock	6,027	16.55	D	
Non-Qualified Stock Option (right to buy) <sup>(2)</sup>	01/29/2007	04/18/2015	Common Stock	4,305	17.82	D	
Non-Qualified Stock Option (right to buy) <sup>(2)</sup>	01/29/2007	06/26/2013	Common Stock	1,722	19.16	D	
Non-Qualified Stock Option (right to buy) <sup>(2)</sup>	01/29/2007	07/29/2014	Common Stock	1,722	19.57	D	
Non-Qualified Stock Option (right to buy) <sup>(2)</sup>	06/07/2007	06/07/2016	Common Stock	6,207	22.06	D	
Non-Qualified Stock Option (right to buy) <sup>(2)</sup>	01/29/2007	06/13/2011	Common Stock	1,205	29.09	D	
Non-Qualified Stock Option (right to buy) <sup>(2)</sup>	01/29/2007	05/30/2012	Common Stock	1,722	56.91	D	

## Explanation of Responses:

1. Shares received in exchange for shares of RITA Medical Systems, Inc. common stock in conjunction with the acquisition of RITA by AngioDynamics on 1/29/07.

2. 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.

By: Ronald F. Lamy For:Vincent Bucci

02/08/2007

\*\* 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 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).

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.

POWER OF ATTORNEY

Know all by these presents, that the undersigned hereby constitutes and appoints each of Ronald F. Lamy and Michael E. Trimarchi, signing singly, the undersigned's true and lawful attorney-in-fact to:

(1) execute for and on behalf of the undersigned, in the undersigned's capacity as as an officer and/or director of AngioDynamics, Inc., Forms 3, 4, and 5 in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder;

(2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4, or 5 and timely file such form with the United States Securities and Exchange Commission and any stock exchange or similar authority; and

(3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4, and 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 29th day of January 2007.

/s/ Vincent A. Bucci