

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>Mauro Demetrio</u>  (Last) (First) (Middle) <u>5 MERCHANT SQUARE</u> <u>NORTH WHARF ROAD</u>  (Street) <u>LONDON X0 W2 1AY</u>  (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) <u>10/19/2015</u>	3. Issuer Name and Ticker or Trading Symbol <u>LivNova PLC [ LIVN ]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Chief Integration Officer</u>	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

## 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)
<u>Common Stock</u>	<u>15,693</u>	<u>D</u>	
<u>Common Stock</u>	<u>2,901<sup>(1)</sup></u>	<u>D</u>	
<u>Common Stock</u>	<u>2,901<sup>(2)</sup></u>	<u>D</u>	

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			
<u>Option to purchase common stock</u>	<u>(3)</u>	<u>10/19/2020</u>	<u>Common Stock</u>	<u>20,822</u>	<u>69.39</u>	<u>D</u>	
<u>Option to purchase common stock</u>	<u>10/19/2015</u>	<u>10/19/2018</u>	<u>Common Stock</u>	<u>8,742</u>	<u>51.34</u>	<u>D</u>	

## Explanation of Responses:

1. Reporting Person was granted restricted stock units ("RSUs"), all of such RSUs shall vest and all forfeiture restrictions thereon to lapse on February 26, 2016.

2. Reporting Person was granted restricted stock units ("RSUs"), all of such RSUs shall vest and all forfeiture restrictions thereon to lapse on February 27, 2017.

3. Reporting Person was granted an award of stock appreciation rights ("SARs"). Subject to the terms and conditions of the SAR Agreement, the SARs shall vest in equal installments of 50% on each of the first two anniversaries of the grant date, October 19, 2015. Payment of such amount shall be in cash, shares (based on their Fair Market Value as of the date the SAR is exercised) or a combination of both, as determined by the Administrator.

## Remarks:

Taylor Pollock, as POA10/22/2015

\*\* 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.