
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

SCHEDULE 13G

**Under the Securities Exchange Act of 1934
(Amendment No. 1)***

Globus Medical, Inc.
(Name of Issuer)

Class A Common Stock, \$0.001 par value per share
(Title of Class of Securities)

379577 20 8
(CUSIP Number)

September 3, 2013
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
 Rule 13d-1(c)
 Rule 13d-1(d)

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes)

Item 1(a). Name of Issuer:

Globus Medical, Inc. (the “Issuer”).

Item 1(b). Address of Issuer’s Principal Executive Offices:

2560 General Armistead Avenue, Audubon, PA 19403.

Item 2(a). Name of Persons Filing:

Clarus Lifesciences I, L.P. (“Clarus I”), Clarus Ventures I Management, L.P. (“Clarus I Management”), Clarus Ventures I, LLC (“Clarus I GPLLC”), Nicholas Galakatos (“Galakatos”), Dennis Henner (“Henner”), Robert Liptak (“Liptak”), Nicholas Simon (“Simon”), Michael Steinmetz (“Steinmetz”) and Kurt Wheeler (“Wheeler”), (each, a “Reporting Person” and collectively, the “Reporting Persons”). Clarus I Management is the sole general partner of Clarus I. Clarus I GPLLC is the sole general partner of Clarus I Management. Galakatos, Henner, Liptak, Simon, Steinmetz and Wheeler, (collectively, the “Managers”) are all of the managing directors of Clarus I GPLLC.

Item 2(b). Address of Principal Business Office or, if None, Residence:

The business address of Clarus I, Clarus I Management, Clarus I GPLLC, Galakatos, Liptak and Steinmetz is 101 Main Street, Suite 1210, Cambridge, MA 02142. The business address of Henner, Simon and Wheeler is 801 Gateway Boulevard, Suite 41, South San Francisco, CA 94080.

Item 2(c). Citizenship:

Clarus I and Clarus I Management are limited partnerships organized under the laws of the State of Delaware. Clarus I GPLLC is a limited liability company organized under the laws of the State of Delaware. Each of Galakatos, Henner, Liptak, Simon and Wheeler is a United States Citizen, and Steinmetz is a German Citizen.

Item 2(d). Title of Class of Securities:

Class A Common Stock, \$0.001 par value per share (“Common Stock”).

Item 2(e). CUSIP Number:

379577 20 8.

Item 3. If this statement is filed pursuant to §§ 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

Not applicable.

Item 4. Ownership.

Not Applicable.

Item 5. Ownership of Five Percent or Less of a Class.

Each Reporting Person has ceased to beneficially own five percent (5%) or more of the Issuer’s outstanding Common Stock.

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Not applicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

Not applicable.

Item 8. Identification and Classification of Members of the Group.

Not applicable.

Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. Certification.

Not applicable. This Schedule 13G is not filed pursuant to Rule 13d-1(b) or Rule 13d-1(c).

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: September 10, 2013

CLARUS LIFESCIENCES I, L.P.

By: Clarus Ventures I Management, L.P., its general partner

By: Clarus Ventures I, LLC, its general partner

By: /s/ Robert Liptak
Manager

CLARUS VENTURES I MANAGEMENT, L.P.

By: Clarus Ventures I, LLC, its general partner

By: /s/ Robert Liptak
Manager

CLARUS VENTURES I, LLC

By: /s/ Robert Liptak
Manager

*
Nicholas Galakatos

*
Dennis Henner

/s/ Robert Liptak
Robert Liptak

*
Nicholas Simon

*
Michael Steinmetz

*
Kurt Wheeler

*By: /s/ Robert Liptak
Robert Liptak, as Attorney-in-Fact

This Amendment No. 1 to Schedule 13G was executed by Robert Liptak on behalf of the individuals listed above pursuant to a Power of Attorney a copy of which is attached as Exhibit 2.

AGREEMENT

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, the undersigned hereby agree that only one statement containing the information required by Schedule 13G need be filed with respect to the ownership by each of the undersigned of shares of Common Stock of Globus Medical, Inc.

Date: September 10, 2013

CLARUS LIFESCIENCES I, L.P.

By: Clarus Ventures I Management, L.P., its general partner

By: Clarus Ventures I, LLC, its general partner

By: /s/ Robert Liptak
Manager

CLARUS VENTURES I MANAGEMENT, L.P.

By: Clarus Ventures I, LLC, its general partner

By: /s/ Robert Liptak
Manager

CLARUS VENTURES I, LLC

By: /s/ Robert Liptak
Manager

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Nicholas Galakatos

*

Dennis Henner

/s/ Robert Liptak
Robert Liptak

*

Nicholas Simon

*

Michael Steinmetz

*

Kurt Wheeler

*By: /s/ Robert Liptak
Robert Liptak, as Attorney-in-Fact

This Agreement was executed by Robert Liptak on behalf of the individuals listed above pursuant to a Power of Attorney a copy of which is attached as Exhibit 2.

POWER OF ATTORNEY

KNOW ALL BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints Robert Liptak with full power to act singly, his true and lawful attorney-in-fact, with full power of substitution, to: (i) sign any and all instruments, certificates and documents that may be necessary, desirable or appropriate to be executed on behalf of himself as an individual or in his capacity as a general partner of any partnership or limited liability company, pursuant to Section 13 or 16 of the Securities Exchange Act of 1934, as amended, and any and all regulations promulgated thereunder, (ii) file the same (including any amendments thereto), with all exhibits thereto, and any other documents in connection therewith, with the Securities and Exchange Commission, and any stock exchange or similar authority and (iii) 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, granting unto said attorney-in-fact full power and authority to do and perform each and every act and thing necessary, desirable or appropriate.

Each of the undersigned hereby grant to the 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.

This power of attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the attorney-in-fact.

IN WITNESS WHEREOF, this Power of Attorney has been signed as of the 11th day of April, 2008.

/s/ Nicholas Galakatos
Nicholas Galakatos

/s/ Dennis Henner
Dennis Henner

/s/ Jeffrey Leiden
Jeffrey Leiden

/s/ Nick Simon
Nick Simon

/s/ Michael Steinmetz
Michael Steinmetz

/s/ Kurt Wheeler
Kurt Wheeler