

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

FORM 8-A

FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES
PURSUANT TO SECTION 12(b) OR (g) OF THE
SECURITIES EXCHANGE ACT OF 1934

Ekso Bionics Holdings, Inc.
(Exact name of registrant as specified in its charter)

Nevada
(State of incorporation or organization)

99-0367049
(I.R.S. Employer Identification No.)

1414 Harbour Way South, Suite 1201
Richmond, California 94804
(Address of Principal Executive Offices including Zip Code)

Securities to be registered pursuant to Section 12(b) of the Act:

Title of each class to be so registered:

Name of each exchange on which each class is to be
registered:

Common Stock, par value \$0.001

The NASDAQ Stock Market LLC

If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to
General Instruction A.(c), check the following box.

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to
General Instruction A.(d), check the following box.

Securities Act registration statement file number to which this form relates: N/A

Securities to be registered pursuant to Section 12(g) of the Exchange Act: None

Item 1. Description of Registrant's Securities to be Registered.

A description of the common stock, par value \$0.001 per share, of Ekso Bionics Holdings, Inc. (the "Registrant"), to be registered hereunder is set forth under the caption "Description of Common Stock" in the prospectus that constitutes a part of the Registrant's Registration Statement on Form S-3, File No. 333-205168 (the "Registration Statement"), initially filed with the U.S. Securities and Exchange Commission on June 23, 2015, as subsequently amended and supplemented. Such Registration Statement, as amended, and any prospectus filed pursuant to Rule 424(b) under the Securities Act of 1933, as amended, that includes such description, are hereby incorporated by reference herein.

Item 2. Exhibits.

Under the Instructions as to Exhibits with respect to Form 8-A, no exhibits are required to be filed because no other securities of the Registrant are registered on The NASDAQ Stock Market LLC and the securities registered hereby are not being registered pursuant to Section 12(g) of the Securities Exchange Act of 1934, as amended.

SIGNATURE

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

EKSO BIONICS HOLDINGS, INC.

By: /s/ Thomas Looby
Name: Thomas Looby
Title: Chief Executive Officer

Dated: August 8, 2016
