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

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**FORM 8-A/A  
(Amendment No. 1)**

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**FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES  
Pursuant to Section 12(b) or (g) of  
the Securities Exchange Act of 1934**

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**Mallinckrodt public limited company**  
(Exact name of registrant as specified in its charter)

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**Ireland**  
(State or other jurisdiction of  
incorporation or organization)

**001-35803**  
(Commission  
File Number)

**98-1088325**  
(I.R.S. Employer  
Identification No.)

**Damastown, Mulhuddart  
Dublin 15, Ireland**  
(Address of principal executive offices)

**+353 (1) 880-8180**  
(Registrant's telephone number, including area code)

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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), please 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), please 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(b) of the Act:**

**Title of Each Class  
to be so Registered**  
**Preferred Share Purchase Rights**

**Name of Each Exchange on Which  
Each Class is to be Registered**  
**New York Stock Exchange**

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

**None**  
(Title of Each Class)

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**Item 1. Description of Securities To Be Registered.**

Item 1 of the Registration Statement is hereby amended and supplemented by adding the following:

On April 23, 2014, Mallinckrodt plc (the "Company") and Computershare Trust Company, N.A., as Rights Agent, pursuant to resolutions adopted by the Company's Board of Directors, amended the Rights Agreement, dated as of June 28, 2013 (the "Rights Agreement Amendment"). A copy of the Rights Agreement Amendment is attached hereto as Exhibit 4.1 and is incorporated herein by reference.

**Item 2. Exhibits.**

- 4.1 Amendment to the Rights Agreement, dated as of April 23, 2014, between Mallinckrodt plc and Computershare Trust Company, N.A., as Rights Agent (incorporated by reference to Exhibit 4.1 to Mallinckrodt plc's Form 8-K filed on April 24, 2014).

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.

Dated: April 24, 2014

MALLINCKRODT PUBLIC LIMITED COMPANY

By: /s/ Peter G. Edwards

Name: Peter G. Edwards

Title: Senior Vice President and General Counsel

EXHIBIT INDEX

**Exhibit  
Number**

**Description**

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