

Polymer Holdings LLC  
Form 8-A12B/A  
December 15, 2009

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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

**FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES**

**PURSUANT TO SECTION 12(b) or (g) OF THE**  
**SECURITIES EXCHANGE ACT OF 1934**

**Polymer Holdings LLC\***

(Exact name of registrant as specified in its charter)

**Delaware**  
(State of Incorporation or Organization)

**20-0411521**  
(I.R.S. Employer Identification Number)

**15710 John F. Kennedy Boulevard, Suite 300,**

**Houston, Texas**  
(Address of principal executive offices)

**77032**  
(Zip Code)

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

**Title of each class**

**Name of each exchange on which**

**to be so registered**

**each class is to be registered**

Common Stock, par value \$.01 per share

New York Stock Exchange

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.

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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: 333-162248 (if applicable)

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

\* Polymer Holdings LLC, a limited liability company organized under the laws of Delaware, is the registrant filing this Registration Statement. Prior to the listing of the Common Stock on the New York Stock Exchange, Polymer Holdings LLC will be converted into a corporation organized under the laws of Delaware, pursuant to the Delaware Limited Liability Company Act Section 18-216 and the Delaware General Corporation Law Section 265 and renamed Kraton Performance Polymers, Inc. The Common Stock to be listed on the New York Stock Exchange and referred to herein are securities of Kraton Performance Polymers, Inc.

**INFORMATION REQUIRED IN REGISTRATION STATEMENT**

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

The description of the common stock, par value \$0.01 per share (the "Common Stock"), of Kraton Performance Polymers, Inc. as included under the caption "Description of Capital Stock" in the Prospectus forming a part of Polymer Holdings LLC's Registration Statement on Form S-1, as originally filed with the Securities and Exchange Commission (the "Commission") on October 1, 2009 (Registration No. 333-162248), including exhibits, and as may be subsequently amended from time to time (the "Registration Statement"), is hereby incorporated by reference. In addition, the above-referenced description included in any Prospectus relating to the Registration Statement filed with the Commission pursuant to Rule 424(b) under the Securities Act of 1933, as amended, shall be deemed to be incorporated by reference herein. Capitalized terms used herein and not otherwise defined shall have the meanings assigned to them in the Registration Statement.

**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 New York Stock Exchange and the securities registered hereby are not being registered pursuant to Section 12(g) of the Exchange Act.

**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.

Date: December 15, 2009

**Polymer Holdings LLC**

By: /s/ STEPHEN W. DUFFY  
Stephen W. Duffy

Vice President and General Counsel