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

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**Form N-2**  
**REGISTRATION STATEMENT**  
**UNDER**  
**THE SECURITIES ACT OF 1933**  
☐ **Pre-Effective Amendment No.**  
☒ **Post-Effective Amendment No. 7**

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**Fifth Street Finance Corp.**

*(Exact name of registrant as specified in charter)*

**10 Bank Street, 12<sup>th</sup> Floor**  
**White Plains, NY 10606**  
**(914) 286-6800**

*(Address and telephone number, including area code, of principal executive offices)*

**Leonard M. Tannenbaum**  
**Fifth Street Finance Corp.**  
**10 Bank Street, 12<sup>th</sup> Floor**  
**White Plains, NY 10606**

*(Name and address of agent for service)*

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***Copies to:***

**Steven B. Boehm, Esq.**  
**Harry S. Pangas, Esq.**  
**Sutherland Asbill & Brennan LLP**  
**1275 Pennsylvania Avenue, NW**  
**Washington, DC 20004-2415**  
**Tel: (202) 383-0100**  
**Fax: (202) 637-3593**

**Approximate date of proposed public offering:** From time to time after the effective date of this Registration Statement.

If any securities being registered on this form will be offered on a delayed or continuous basis in reliance on Rule 415 under the Securities Act of 1933, other than securities offered in connection with a dividend reinvestment plan, check the following box. ☒

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### **EXPLANATORY NOTE**

This Post-Effective Amendment No. 7 to the Registration Statement on Form N-2 (File No. 333-166012) is being filed pursuant to Rule 462(d) under the Securities Act of 1933, as amended (the “Securities Act”), solely for the purpose of adding exhibits to such Registration Statement. Accordingly, this Post-Effective Amendment No. 7 consists only of a facing page, this explanatory note, and Part C of the Registration Statement on Form N-2. This Post-Effective Amendment No. 7 does not change the form of prospectus relating to the Registration Statement on Form N-2 previously filed with the SEC. As permitted by Rule 462(d), this Post-Effective Amendment No. 7 shall become effective upon filing with the SEC.

**PART C**  
**Other Information**

**Item 25. Financial Statements And Exhibits**

*(1) Financial Statements*

The following financial statements of Fifth Street Finance Corp. (the “Registrant” or the “Company”) are included in Part A of this Registration Statement:

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*(2) Exhibits*

(a)(1)	Restated Certificate of Incorporation of the Registrant (Incorporated by reference to Exhibit 3.1 filed with Fifth Street Finance Corp.’s Form 8-A (File No. 001-33901) filed on January 2, 2008).
(a)(2)	Certificate of Amendment to the Registrant’s Restated Certificate of Incorporation (Incorporated by reference to Exhibit(a)(2) filed with Fifth Street Finance Corp.’s Registration Statement on Form N-2 (File No. 333-146743) filed on June 6, 2008).
(a)(3)	Certificate of Correction to the Certificate of Amendment to the Registrant’s Restated Certificate of Incorporation (Incorporated by reference to Exhibit(a)(3) filed with Fifth Street Finance Corp.’s Registration Statement on Form N-2 (File No. 333-146743) filed on June 6, 2008).
(a)(4)	Certificate of Amendment to Registrant’s Restated Certificate of Incorporation (Incorporated by reference to Exhibit 3.1 filed with Fifth Street Finance Corp.’s Quarterly Report on Form 10-Q (File No. 814-0075) filed on May 5, 2010).
(b)	Amended and Restated Bylaws of the Registrant (Incorporated by reference to Exhibit 3.2 filed with Fifth Street Finance Corp.’s Form 8-A (File No. 001-33901) filed on January 2, 2008).
(d)(1)	Form of Common Stock Certificate (Incorporated by reference to Exhibit 4.1 filed with Fifth Street Finance Corp.’s Form 8-A (File No. 001-33901) filed on January 2, 2008).
(d)(2)	Indenture, dated April 12, 2011, between Registrant and Deutsche Bank Trust Company Americas, as trustee (Incorporated by reference to Exhibit 4.1 filed with Fifth Street Finance Corp.’s Form 8-K (File No. 001-33901) filed on April 12, 2011).
(d)(3)	Form of 5.375% Convertible Senior Notes due 2016 (Incorporated by reference to Exhibit 4.2 filed with Fifth Street Finance Corp.’s Form 8-K (File No. 001-33901) filed on April 12, 2011).

- (e) Amended and Restated Dividend Reinvestment Plan (Incorporated by reference to Exhibit 10.1 filed with Fifth Street Finance Corp.'s Form 8-K (File No. 001-33901) filed on October 28, 2010).
- (g)(1) Second Amended and Restated Investment Advisory Agreement by and between Registrant and Fifth Street Management LLC (Incorporated by reference to Exhibit 10.5 filed with Fifth Street Finance Corp.'s Quarterly Report on Form 10-Q (File No. 001-33901) filed on May 4, 2011).
- (j) Custody Agreement, dated January 31, 2011, by and between Fifth Street Finance Corp. and U.S. Bank National Association (Incorporated by reference to Exhibit 10.1 filed with Fifth Street Finance Corp.'s Quarterly Report on Form 10-Q (File No. 814-00755) filed on January 31, 2011).
- (k)(1) Amended and Restated Administration Agreement by and between Registrant and FSC, Inc. (Incorporated by reference to Exhibit 10.6 filed with Fifth Street Finance Corp.'s Quarterly Report on Form 10-Q (File No. 001-33901) filed on May 4, 2011).
- (k)(2) Form of License Agreement by and between Registrant and Fifth Street Capital LLC (Incorporated by reference to Exhibit(k)(2) filed with Fifth Street Finance Corp.'s Registration Statement on Form N-2 (File No. 333-146743) filed on May 8, 2008).
- (k)(3) Amended and Restated Loan and Servicing Agreement among Registrant, Fifth Street Funding, LLC, Wells Fargo Securities, LLC, and Wells Fargo Bank, N.A., dated as of November 5, 2010 (Incorporated by reference to Exhibit 10.6 filed with Fifth Street Finance Corp.'s Annual Report on Form 10-K (File No. 814-00755) filed on December 2, 2010).
- (k)(4) Amendment No. 1 to the Amended and Restated Loan and Servicing Agreement among Registrant, Fifth Street Funding, LLC, Wells Fargo Securities, LLC and Wells Fargo Bank, N.A., dated as of February 25, 2011 (Incorporated by reference to Exhibit(k)(4) filed with Fifth Street Finance Corp.'s Registration Statement on Form N-2 (File No. 333-166012) filed on March 30, 2011).
- (k)(5) Purchase and Sale Agreement by and between Registrant and Fifth Street Funding, LLC, dated as of November 16, 2009 (Incorporated by reference to Exhibit 10.7 filed with Fifth Street Finance Corp.'s Annual Report on Form 10-K (File No. 814-00755) filed on December 9, 2009).
- (k)(6) Pledge Agreement by and between Registrant and Wells Fargo Bank, N.A., dated as of November 16, 2009 (Incorporated by reference to Exhibit 10.8 filed with Fifth Street Finance Corp.'s Annual Report on Form 10-K (File No. 814-00755) filed on December 9, 2009).
- (k)(7) Omnibus Amendment No. 1 relating to Registrant's credit facility with Wells Fargo Bank, N.A., dated as of May 26, 2010 (Incorporated by reference to Exhibit(k)(6) filed with Fifth Street Finance Corp.'s Registration Statement on Form N-2 (File No. 333-166012) filed on June 4, 2010).
- (k)(8) Amended and Restated Senior Secured Revolving Credit Agreement among Registrant, ING Capital LLC, Royal Bank of Canada, UBS Loan Finance, LLC, Morgan Stanley Bank, N.A., Key Equipment Finance Inc., Deutsche Bank Trust Company Americas and Patriot National Bank, dated as of February 22, 2011 (Incorporated by reference to Exhibit(k)(8) filed with Fifth Street Finance Corp.'s Registration Statement on Form N-2 (File No. 333-166012) filed on March 30, 2011).
- (k)(9) Guarantee, Pledge and Security Agreement among Registrant, FSFC Holdings, Inc. and ING Capital LLC, dated as of May 27, 2010 (Incorporated by reference to Exhibit (k)(8) filed with Fifth Street Finance Corp.'s Registration Statement on Form N-2 (File No. 333-166012) filed on June 4, 2010).
- (k)(10) Amendment and Reaffirmation Agreement among Registrant, FSFC Holdings, Inc., Fifth Street Fund of Funds LLC and ING Capital LLC, dated as of February 22, 2011 (Incorporated by reference to Exhibit(k)(10) filed with Fifth Street Finance Corp.'s Registration Statement on Form N-2 (File No. 333-166012) filed on March 30, 2011).
- (k)(11) Amendment No. 1 to Amended and Restated Senior Secured Revolving Credit Agreement and Amendment No. 2 to the Guarantee, Pledge and Security Agreement, among Registrant, FSFC Holdings, Inc., Fifth Street Fund of Funds LLC, ING Capital LLC, Royal Bank of Canada, UBS Loan Finance LLC, Morgan Stanley Bank, N.A., Key Equipment Finance, Inc., Deutsche Bank Trust Company Americas and Patriot National Bank, dated as of July 8, 2011. (Incorporated by reference to Exhibit 10.1 filed with Fifth Street Finance Corp.'s Form 8-K (File No. 001-33901) filed on July 14, 2011).
- (k)(12) Amendment No. 2 to Amended and Restated Senior Secured Revolving Credit Agreement among Registrant, FSFC Holdings, Inc., Fifth Street Fund of Funds LLC, ING Capital LLC, Key Equipment Finance, Inc. and UBS Loan Finance LLC, dated as of November 29, 2011. (Incorporated by reference to Exhibit 10.15 filed with Fifth Street Finance Corp.'s Annual Report on Form 10-K (File No. 814-00755) filed on November 29, 2011).
- (k)(13) Incremental Assumption Agreement among Registrant, FSFC Holdings, Inc., Fifth Street Fund of Funds LLC, ING Capital LLC and Royal Bank of Canada, dated as of July 8, 2011. (Incorporated by reference to Exhibit 10.2 filed with Fifth Street Finance Corp.'s Form 8-K (File No. 001-33901) filed on July 14, 2011).
- (k)(14) Waiver Letter among Registrant, FSFC Holdings, Inc., Fifth Street Fund of Funds LLC, ING Capital LLC, Royal Bank of Canada and Key Equipment Finance, Inc., dated as of August 3, 2011. (Incorporated by reference to Exhibit 10.17 filed with Fifth Street Finance Corp.'s Annual Report on Form 10-K (File No. 814-00755) filed on November 29, 2011).

- (k)(15) Loan and Servicing Agreement among Registrant, Fifth Street Funding II, LLC and Sumitomo Mitsui Banking Corporation, dated as of September 16, 2011. (Incorporated by reference to Exhibit 10.18 filed with Fifth Street Finance Corp.’s Annual Report on Form 10-K (File No. 814-00755) filed on November 29, 2011).
- (k)(16) Purchase and Sale Agreement by and between Registrant and Fifth Street Funding II, LLC, dated as of September 16, 2011. (Incorporated by reference to Exhibit 10.19 filed with Fifth Street Finance Corp.’s Annual Report on Form 10-K (File No. 814-00755) filed on November 29, 2011).
- (k)(17) Amendment No. 3 to the Amended and Restated Loan and Servicing Agreement among Registrant, Fifth Street Funding, LLC, Wells Fargo Securities, LLC and Wells Fargo Bank, N.A., dated as of November 30, 2011. (Incorporated by reference to Exhibit 10.1 filed with Fifth Street Finance Corp.’s Form 8-K (File No. 001-33901) filed on December 5, 2011).
- (k)(18) Amendment No. 1 to the Purchase and Sale Agreement by and between Registrant and Fifth Street Funding, LLC, dated as of November 30, 2011. (Incorporated by reference to Exhibit 10.2 filed with Fifth Street Finance Corp.’s Form 8-K (File No. 001-33901) filed on December 5, 2011).
- (l) Opinion of Sutherland Asbill & Brennan LLP (Incorporated by reference to Exhibit(l)(1) filed with Fifth Street Finance Corp.’s Registration Statement on Form N-2 (File No. 333-166012) filed on June 4, 2010).
- (n)(1) Consent of Grant Thornton LLP.\*
- (n)(2) Consent of PricewaterhouseCoopers LLP.\*
- (r)(1) Code of Ethics of the Registrant (Incorporated by reference to Exhibit(r) filed with Fifth Street Finance Corp.’s Registration Statement on Form N-2 (File No. 333-146743) filed on May 8, 2008).
- (r)(2) Code of Ethics of Fifth Street Management LLC (Incorporated by reference to Exhibit(r)(2) filed with Fifth Street Finance Corp.’s Registration Statement on Form N-2 (File No. 333-159720) filed on June 4, 2009).

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\* Filed herewith.

**Item 26.      *Marketing Arrangements***

The information contained under the heading “Plan of Distribution” on this Registration Statement is incorporated herein by reference and any information concerning any underwriters will be contained in the accompanying prospectus supplement, if any.

**Item 27. Other Expenses Of Issuance And Distribution**

SEC registration fee	\$ 16,220
New York Stock Exchange and Nasdaq listing fees	\$192,710
FINRA filing fee	\$ 23,248
Accounting fees and expenses	\$ 75,000
Legal fees and expenses	\$200,000
Printing and engraving	\$150,000
Total	\$661,182

The amounts set forth above, except for the SEC, FINRA, New York Stock Exchange fees and Nasdaq fees, are in each case estimated. All of the expenses set forth above shall be borne by the Registrant.

**Item 28. Persons Controlled By Or Under Common Control**

The following list sets forth each of the Registrant's subsidiaries, the state or country under whose laws the subsidiary is organized, and the percentage of voting securities or membership interests owned by the Registrant in such subsidiary:

- FSFC Holdings, Inc. — a Delaware corporation (100%)
- Fifth Street Fund of Funds, LLC — a Delaware limited liability company (100%)
- Fifth Street Funding, LLC — a Delaware limited liability company (100%)
- Fifth Street Mezzanine Partners IV, L.P. — a Delaware limited partnership (100%)
- FSMP IV GP, LLC — a Delaware limited liability company (100%)
- Fifth Street Funding II, LLC — a Delaware limited liability company (100%)
- Fifth Street Mezzanine Partners V, L.P. — a Delaware limited partnership (100%)
- FSMP V GP, LLC — a Delaware limited liability company (100%)

Each of our subsidiaries is consolidated for financial reporting purposes.

In addition, the Registrant may be deemed to control Lighting by Gregory, LLC, one of the Registrant's portfolio companies.

**Item 29. Number Of Holders Of Securities**

The following table sets forth the number of record holders of the Registrant's capital stock at January 11, 2012.

<u>Title of Class</u>	<u>Number of Record Holders</u>
Common stock, \$0.01 par value	70

**Item 30. Indemnification**

Section 145 of the Delaware General Corporation Law empowers a Delaware corporation to indemnify its officers and directors and specific other persons to the extent and under the circumstances set forth therein.

Section 102(b)(7) of the Delaware General Corporation Law allows a Delaware corporation to eliminate the personal liability of a director to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except for liabilities arising (a) from any breach of the director's duty of loyalty to the corporation or its stockholders; (b) from acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law; (c) under Section 174 of the Delaware General Corporation Law; or (d) from any transaction from which the director derived an improper personal benefit.

Subject to the Investment Company Act of 1940, as amended (the "1940 Act") or any valid rule, regulation or order of the SEC thereunder, our Restated Certificate of Incorporation provides that we will indemnify any person who was or is a party or is threatened to be made a party to any threatened action, suit or proceeding whether civil, criminal, administrative or investigative, by reason of the fact that he is or was a director or officer of the Registrant, or is or was serving at the request of the Registrant as a director or officer of another corporation, partnership, limited liability company, joint venture, trust or other enterprise, in accordance with provisions corresponding to Section 145 of the Delaware General Corporation Law. The 1940 Act provides that a company may not indemnify any director or officer against liability to it or its security holders to which he or she might otherwise be subject by reason of his or her willful misfeasance, bad faith, gross negligence or reckless disregard of the duties involved in the conduct of his or her office unless a determination is made by final decision of a court, by vote of a majority of a quorum of directors who are disinterested, non-party

directors or by independent legal counsel that the liability for which indemnification is sought did not arise out of the foregoing conduct. In addition, our Restated Certificate of Incorporation provides that the indemnification described therein is not exclusive and shall not exclude any other rights to which the person seeking to be indemnified may be entitled under statute, any bylaw, agreement, vote of stockholders or directors who are not interested persons, or otherwise, both as to action in his official capacity and to his action in another capacity while holding such office.

The above discussion of Section 145 of the Delaware General Corporation Law and the Registrant's Restated Certificate of Incorporation is not intended to be exhaustive and is respectively qualified in its entirety by such statute and the Registrant's Restated Certificate of Incorporation.

The Registrant has obtained primary and excess insurance policies insuring our directors and officers against some liabilities they may incur in their capacity as directors and officers. Under such policies, the insurer, on the Registrant's behalf, may also pay amounts for which the Registrant has granted indemnification to the directors or officers.

The Registrant may agree to indemnify any underwriters in connection with an offering pursuant to this Registration Statement against specific liabilities, including liabilities under the Securities Act of 1933, as amended (the "Securities Act").

**Item 31.      *Business And Other Connections Of Investment Adviser***

A description of any other business, profession, vocation, or employment of a substantial nature in which our investment adviser, and each director or executive officer of our investment adviser, is or has been during the past two fiscal years, engaged in for his or her own account or in the capacity of director, officer, employee, partner or trustee, is set forth in Part A of this Registration Statement in the sections entitled "Business — The Investment Adviser," "Management — Board of Directors and Executive Officers — Directors," "— Executive Officers" and "Investment Advisory Agreement." Additional information regarding our investment adviser and its officers and directors is set forth in its Form ADV, as filed with the Securities and Exchange Commission (SEC File No. 801-68676), and is incorporated herein by reference.

**Item 32.      *Location Of Accounts And Records***

All accounts, books and other documents required to be maintained by Section 31(a) of the Investment Company Act of 1940, and the rules thereunder are maintained at the offices of:

- (1) the Registrant, Fifth Street Finance Corp., 10 Bank Street, 12th Floor, White Plains, NY 10606;
- (2) the Transfer Agent, American Stock Transfer & Trust Company, 59 Maiden Lane, New York, New York, 10038;
- (3) the Custodian, U.S. Bank, National Association, 214 N. Tryon St., 27th Floor, Charlotte, NC 28202;
- (4) the investment adviser, Fifth Street Management LLC, 500 W. Putnam Ave., Suite 400, Greenwich, CT 06830; and
- (5) the administrator, FSC, Inc., 10 Bank Street, 12th Floor, White Plains, NY 10606.

**Item 33.      *Management Services***

Not Applicable.

**Item 34.      *Undertakings***

1. We hereby undertake to suspend any offering of shares until the prospectus is amended if (1) subsequent to the effective date of this Registration Statement, our net asset value declines more than ten percent from our net asset

value as of the effective date of this Registration Statement or (2) our net asset value increases to an amount greater than our net proceeds (if applicable) as stated in the prospectus.

2. We hereby undertake:

a. to file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement:

(1) to include any prospectus required by Section 10(a)(3) of the Securities Act;

(2) to reflect in the prospectus or prospectus supplement any facts or events after the effective date of this Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in this Registration Statement; and

(3) to include any material information with respect to the plan of distribution not previously disclosed in this Registration Statement or any material change to such information in this Registration Statement.

b. for the purpose of determining any liability under the Securities Act, that each such post-effective amendment to this Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of those securities at that time shall be deemed to be the initial bona fide offering thereof.

c. to remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

d. for the purpose of determining liability under the Securities Act to any purchaser, that if we are subject to Rule 430C under the Securities Act, each prospectus filed pursuant to Rule 497(b), (c), (d) or (e) under the Securities Act as part of this Registration Statement relating to an offering shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness, provided, however, that no statement made in a registration statement or prospectus or prospectus supplement that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such first use, supercede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.

e. for the purpose of determining liability of the Registrant under the Securities Act to any purchaser in the initial distribution of securities, that if the securities are offered or sold to such purchaser by means of any of the following communications, we will be a seller to the purchaser and will be considered to offer or sell such securities to the purchaser:

(1) any preliminary prospectus or prospectus or prospectus supplement of us relating to the offering required to be filed pursuant to Rule 497 under the Securities Act;

(2) the portion of any advertisement pursuant to Rule 482 under the Securities Act relating to the offering containing material information about us or our securities provided by or on behalf of us; and

(3) any other communication that is an offer in the offering made by us to the purchaser.

f. to file a post-effective amendment to the registration statement, and to suspend any offers or sales pursuant to the registration statement until such post-effective amendment has been declared effective under the 1933 Act, in the event our shares of common stock are trading below our net asset value per share and either (i) we receive, or have been advised by our independent registered accounting firm that we will receive, an audit report reflecting substantial doubt regarding our ability to continue as a going concern or (ii) we have concluded that a fundamental change has occurred in our financial position or results of operations.

g. Insofar as indemnification for liability arising under the Securities Act may be permitted to our directors, officers and controlling persons, that we have been advised that in the opinion of the Securities and



Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by us of expenses incurred or paid by a director, officer or controlling person of us in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, we undertake, unless in the opinion of our counsel the matter has been settled by controlling precedent, to submit to a court of appropriate jurisdiction the question whether such indemnification by us is against public policy as expressed in the Securities Act and we will be governed by the final adjudication of such issue.

3. We hereby undertake that:

a. For purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus filed as part of this Registration Statement in reliance upon Rule 430A and contained in a form of prospectus filed by us pursuant to Rule 424(b) (1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this Registration Statement as of the time it was declared effective.

b. For the purpose of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant has duly caused this Post-Effective Amendment No. 7 to the Registration Statement on Form N-2 to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of White Plains, State of New York, on January 23, 2012.

### FIFTH STREET FINANCE CORP.

**By:** /s/ LEONARD M. TANNENBAUM

Name: Leonard M. Tannenbaum

Title: Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this Post-Effective Amendment No. 7 to the Registration Statement on Form N-2 has been signed below by the following persons in the capacities and on the dates indicated:

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ LEONARD M. TANNENBAUM</u> Leonard M. Tannenbaum	Chief Executive Officer and Director (Principal Executive Officer)	January 23, 2012
<u>/s/ ALEXANDER C. FRANK</u> Alexander C. Frank	Chief Financial Officer (Principal Financial and Accounting Officer)	January 23, 2012
<u>/s/ BERNARD D. BERMAN</u> Bernard D. Berman	President, Chief Compliance Officer, Secretary and Director	January 23, 2012
<u>*</u> Brian S. Dunn	Director	January 23, 2012
<u>*</u> Richard P. Dutkiewicz	Director	January 23, 2012
<u>*</u> Byron J. Haney	Director	January 23, 2012
<u>*</u> Frank C. Meyer	Director	January 23, 2012
<u>*</u> Douglas F. Ray	Director	January 23, 2012

\* Signed by Bernard D. Berman pursuant to a power of attorney signed by each individual on April 12, 2010.

EXHIBIT INDEX

Exhibit Number	Description
(n)(1)	Consent of Grant Thornton LLP.
(n)(2)	Consent of PricewaterhouseCoopers LLP.

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We have issued our report dated December 9, 2009, with respect to the consolidated financial statements of Fifth Street Finance Corp. contained in the Prospectus Supplement dated January 23, 2012, to the Registration Statement on Form N-2 (File No. 333-166012) and the Prospectus, dated March 31, 2011. We consent to the use of the aforementioned report in the Prospectus Supplement to the Registration Statement on Form N-2 and Prospectus.

/s/ GRANT THORNTON LLP

New York, New York

January 23, 2012

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the use in this Registration Statement on Form N-2 of Fifth Street Finance Corp. of our report dated November 29, 2011 relating to the consolidated financial statements and financial statement schedule of Fifth Street Finance Corp., which appear in such Registration Statement. We also consent to the reference to us under the heading Independent Registered Public Accounting Firm in such Registration Statement.

/s/ PricewaterhouseCoopers LLP

New York, NY  
January 23, 2012