SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 11-K

Annual Report Pursuant to Section 15(d) of
The Securities Exchange Act of 1934

x **ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934.**

For the fiscal year ended December 31, 2011

o **TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934.**

For the transition period from to

Commission file number 1-6948

A. Full title of the plan and the address of the plan, if different from that of the issuer named below: **SPX Corporation Retirement Savings and Stock Ownership Plan**

B. Name of the issuer of the securities held pursuant to the plan and the address of its principal executive office:

SPX Corporation

13515 Ballantyne Corporate Place

Charlotte, North Carolina 28277

SPX Corporation
Retirement Savings and Stock Ownership Plan

Financial Report

December 31, 2011

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Report of Independent Registered Public Accounting Firm

To the Administrative Committee
SPX Corporation Retirement Savings
and Stock Ownership Plan

We have audited the accompanying statement of net assets available for benefits of the SPX Corporation Retirement Savings and Stock Ownership Plan (the "Plan") as of December 31, 2011 and 2010 and the related statement of changes in net assets available for benefits for the year ended December 31, 2011. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Plan is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audit included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets of the SPX Corporation Retirement Savings and Stock Ownership Plan as of December 31, 2011 and 2010 and the changes in net assets for the year ended December 31, 2011, in conformity with accounting principles generally accepted in the United States of America.

Our audits were performed for the purpose of forming an opinion on the basic financial statements taken as a whole. The supplemental schedule of assets held at end of year as of December 31, 2011 is presented for the purpose of additional analysis and is not a required part of the basic financial statements but is supplemental information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. The supplemental schedule is the responsibility of the Plan's management. The supplemental schedule has been subjected to the auditing procedures applied in the audits of the basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the basic financial statements taken as a whole.

/s/ Plante & Moran, PLLC
Southfield, Michigan
June 21, 2012

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SPX CORPORATION RETIREMENT SAVINGS AND
STOCK OWNERSHIP PLAN

Statement of Net Assets Available for Benefits

	December 31	
	2011	**2010**
Assets		
Participant-directed investments:		
Money market fund	4,287,572	4,616,055
Common collective trust fund	149,314,510	145,339,361
Mutual funds	439,234,786	461,545,363
Employer securities	157,142,959	179,376,402
Total participant-directed investments	749,979,827	790,877,181
Participant notes receivable	20,401,065	19,688,873
Contribution receivable:		
Employer	35,663	28,405
Employee	65,767	55,792
Total contribution receivable	101,430	84,197
Adjustment from fair value to contract value relating to fully benefit-responsive investment contracts	(3,627,845)	(1,435,128)
Net Assets Available for Benefits	**$ 766,854,477**	**$ 809,215,123**

See Notes to Financial Statements.

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SPX CORPORATION RETIREMENT SAVINGS AND
STOCK OWNERSHIP PLAN

Statement of Changes in Net Assets Available for Benefits

Year Ended December 31, 2011

Additions	
Interest and dividends	17,923,792

Participant notes receivable interest	1,013,258
Contributions:	
Employer	18,263,827
Participants	32,759,414
Rollovers	2,188,699
Total contributions	53,211,940
Total additions	72,148,990
Deductions	
Net depreciation in fair value of investments:	
Mututal funds	(19,076,272)
Employer securities	(26,196,501)
Net depreciation in fair value of investments	(45,272,773)
Distributions to participants	(68,929,758)
Administrative expenses	(307,105)
Total deductions	(114,509,636)
Net Decrease	(42,360,646)
Net Assets Available for Benefits	
Beginning of year	809,215,123
End of year	**$ 766,854,477**

See Notes to Financial Statements.

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SPX CORPORATION RETIREMENT SAVINGS AND
STOCK OWNERSHIP PLAN

Notes to Financial Statements
December 31, 2011 and 2010

Note 1 - Description of the Plan

The following description of the SPX Corporation Retirement Savings and Stock Ownership Plan (the “Plan”), as amended and restated effective October 1, 2010 provides only general information. Participants should refer to the Plan document for a complete description of the Plan’s provisions. The Plan became effective January 1, 1952 and is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA). The Plan operates as a leveraged employee stock ownership plan with a cash or deferred arrangement as described in Internal Revenue Code Section 401(k) and is designed to comply with Section 4975(e)(7) and the regulations thereunder of the Internal Revenue Code (the “Code”).

Effective July 1, 2010, the SPX Corporation Savings Plan merged with and into the Plan. Effective September 30, 2010, the Weil McLain Hourly Employee Savings Plan merged with and into the Plan. Participants and beneficiaries of both the former SPX Corporation Savings Plan and the former Weil McLain Hourly Employee Savings Plan (the “Merged Plans”) participate in the Plan under the terms and conditions of the Merged Plans as in effect immediately prior to the merger (and as may be subsequently amended).

General - The Plan is a defined contribution plan that benefits primarily employees of SPX Corporation (the “Employer” or the “Company”) who have met eligibility requirements.

Contributions - Participants can elect to defer a portion of their compensation as a pretax contribution to the Plan, up to the maximum allowed under the Plan and the Code.

As outlined in the Plan document, employer contributions are dependent upon the division of the Company where the participant is employed. In general, for participants other than those in the Merged Plans, the Company makes matching contributions equal to 100 percent of the participant’s pretax contributions up to the first 4 percent of compensation deferred and 50 percent of the participant’s pretax contributions in excess of 4 percent of compensation deferred up to a maximum of 6 percent of compensation deferred. Employer contributions are invested in SPX Corporation common stock and are immediately vested and can be transferred at any time, subject to certain trading restrictions.

Employer contributions for participants of the Merged Plans are determined based on the collective bargaining agreements.

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Note 1 - Description of the Plan (Continued)

Participant Accounts - Each participant's account is credited with the participant's contributions, the Employer's matching contributions, if any, and an allocation of Plan earnings.

Allocation of Plan earnings to participant accounts is based on the participant's proportionate share of funds in each of the investment accounts. The benefit to which a participant is entitled is the benefit that can be provided from the participant's account.

Participants elect to invest their account balances and contributions among various investment options provided by the SPX Corporation Retirement and Welfare Plan Administrative Committee (the "Committee"), including an option to invest in SPX Corporation common stock.

Vesting - Participants in the Plan are at all times 100 percent vested in their contributions and earnings thereon. Vesting in employer contributions is dependent upon the business unit or division of the Company where the participant is employed. In general, participants are 100 percent vested in employer contributions; however, there are certain employer contributions that vest over a five to six year period. Any forfeitures may be used to pay expenses of the Plan or reduce the employer contributions in the year the forfeitures occur or future years. Total forfeitures outstanding at December 31, 2011 and 2010 were $385,724 and $487,153, respectively.

Payment of Benefits - Upon termination of service, a participant may elect to receive either a lump-sum distribution or monthly or yearly payments equal to the value of his or her account. Terminated participants with account balances in excess of $1,000 can also elect to wait until retirement age to receive benefits. A participant who experiences a financial hardship is eligible to receive a distribution from his or her plan account. The Plan also allows participants to withdraw certain portions of their balances attributed to certain benefit plans that have been previously merged into the Plan. All withdrawal payments are made by Fidelity Management Trust Company (the "Trustee").

Employer Securities - Investment in SPX Corporation stock transferred to participants' accounts by reason of the merger of the SPX Corporation Stock Ownership Plan on January 1, 1994 and stock allocated to participants' accounts by reason of matching contributions as discussed above can be redirected to other investment options, subject to certain trading restrictions.

Participant Notes Receivable - A participant can borrow from the Plan an amount that does not exceed the lesser of $50,000 or 50 percent of the participant's vested account balance. The term of the participant note receivable may not exceed five years unless the participant note receivable is used in the purchase of a primary residence, in which case the term may be for up to 15 years.

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Note 1 - Description of the Plan (Continued)

Participant notes receivable are collateralized by the balance in the participant's account and bear interest at market rates as outlined in the Plan document. Principal and interest are paid ratably through payroll deductions. Other participant note receivable provisions are outlined in the Plan document.

Voting Rights - Each participant is entitled to exercise voting rights attributable to the shares allocated to his or her account. The Trustee is required to vote shares of common stock that have been allocated to participants but for which the Trustee received no voting instructions in the same manner and in the same proportion as the shares for which the Trustee received timely voting instructions.

Administration - The Company is the sponsor of the Plan. The Committee, as provided in the Plan document, is the plan administrator and has responsibility for the administration of the Plan. The Trustee also functions as the investment manager.

Investment management fees and trustee fees are paid by the Plan in accordance with the Plan document.

Termination - Although it has not expressed any intent to do so, the Company has the right to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. Upon termination of the Plan, participants become 100 percent vested in their account balances.

Note 2 - Summary of Significant Accounting Policies

New Accounting Pronouncement - In May 2011, the Financial Accounting Standards Board issued guidance to develop a single, converged fair value framework, amend the requirements of fair value measurement and enhance related disclosure requirements, particularly for recurring Level 3 fair value measurements. This guidance clarifies the concepts of (i) the highest and best use and valuation premise for nonfinancial assets, (ii) application to financial assets and liabilities with offsetting positions in market risks or counterparty credit risk, (iii) premiums or discounts in fair value measurements and (iv) fair value measurement of an instrument classified in a reporting entity's shareholders' equity. The guidance is effective for interim and annual reporting periods beginning after December 15, 2011, and must be applied prospectively. The adoption of this standard is not expected to have a material impact on the Plan's financial statements.

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Note 2 - Summary of Significant Accounting Policies (Continued)

Participant Notes Receivable - Participant notes receivable are recorded at their unpaid principal balances plus any accrued interest. Participant notes receivable are written off when deemed uncollectible.

Investments - The Plan's investments are stated at fair value, except for its common collective trust fund investment, which is valued at contract value. Contract value represents investments at cost plus accrued interest income less amounts withdrawn to pay benefits. The fair value of the common collective trust fund is based on discounting the related cash flows of the underlying guaranteed investment contracts based on current yields of similar instruments with comparable durations. All other investments are valued based on quoted market prices. Dividend income is accrued on the ex-dividend date.

The methods described above may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, while the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

Stable Value Fund - The Plan holds the investment fund Fidelity Managed Income Portfolio II - a stable value fund. The fund has certain limitations on withdrawals and exchanges as follows:

- Participant-directed - Withdrawals made in order to accommodate distributions to participants or transfers to non-competing investments may be made on any business day. Transferred amounts must be held in a non-competing investment option for 90 days before subsequent transfers to a competing fund can occur.

- Non-participant-directed - Withdrawals directed by a plan sponsor must be preceded by a twelve month written notice to Fidelity Management Trust Company (Fidelity). Fidelity, however, may, in its discretion, complete any such plan-level withdrawal before the expiration of such twelve month period. No such notice has been given to Fidelity.

Benefit Payments - Distributions to participants are recorded when paid.

Income Tax Status - The Plan constitutes a qualified plan under Sections 401(a) and 401(k) of the Code and the related trust is exempt from federal income tax under Section 501(a) of the Code. The Plan obtained its determination letter dated December 4, 2003, in which the Internal Revenue Service stated that the Plan, as designed, was in compliance with the

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Note 2 - Summary of Significant Accounting Policies (Continued)

applicable requirements of the Code. Therefore, no provision for income taxes has been included in the Plan's financial statements.

In accordance with guidance on accounting for uncertainty in income taxes, management evaluated the Plan's tax position and does not believe the Plan has any uncertain tax positions that require disclosure or adjustment to the financial statements. The plan administrator believes it is no longer subject to tax examinations for years prior to 2008.

Use of Estimates - The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of additions and deductions during the reporting period. Actual results could differ from those estimates.

Risks and Uncertainties - The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market, and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect participants' account balances and the amounts reported in the statements of net assets available for benefits.

Note 3 - Investments

Significant investments of the Plan at the end of the year were as follows:

	2011	2010
Employer securities, at fair value:		
SPX Corporation stock	$ 157,142,959	$ 179,376,402
Common collective trust fund, at contract value:		
Fidelity Managed Income Portfolio II	145,686,665	143,904,233
Mutual funds, at fair value:		
Fidelity Contrafund K (1)	46,085,541	24,209,300
Fidelity Puritan K (1)	48,964,818	19,576,219

(1) Investments held within the investment funds Fidelity Contrafund and Fidelity Puritan were transferred to the investment funds Fidelity Contrafund K and Fidelity Puritan K, respectively, on June 15, 2011.

Note 4 - Reconciliation of Financial Statements to Form 5500 (Annual Return/Report of Employee Benefit Plan)

The net assets on the financial statements differ from the net assets on Form 5500 due to a common collective trust fund being recorded at contract value on the financial statements and at fair value on Form 5500. The net assets on the financial statements were lower than Form 5500 by $3,627,845 and $1,435,128 at December 31, 2011 and 2010, respectively. Accordingly, the net decrease in the net assets available for benefits on the financial statements is $2,192,717 greater than as reported on the Form 5500 for the year ended December 31, 2011.

Note 5 - Fair Value Measurements

Accounting standards require certain assets and liabilities be reported at fair value in the financial statements and provide a framework for establishing that fair value. The framework for determining fair value is based on a hierarchy that prioritizes the inputs and valuation techniques used to measure fair value.

The Plan utilizes market data or assumptions that it believes market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique. These inputs can be readily observable quoted prices in active markets for identical assets or liabilities (Level 1), significant other observable inputs (Level 2) or significant unobservable inputs (Level 3). The Plan's assessment of the significance of particular inputs to these fair value measurements requires judgment and considers factors specific to each asset or liability.

Assets measured at fair value are as follows:

	Assets Measured at Fair Value at December 31, 2011			
	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Mutual funds:				
Equity securities	$ 343,638,520	$ 343,638,520	$ —	$ —
Bonds and fixed income investments	49,996,104	49,996,104	—	—
Retirement age-based investments	45,600,162	45,600,162	—	—
Employer securities - SPX Corporation stock	157,142,959	157,142,959	—	—
Common collective trust fund *	149,314,510	—	149,314,510	—
Money market and cash investments	4,287,572	4,287,572	—	—

	Assets Measured at Fair Value at December 31, 2010			
	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Mutual funds:				
Equity securities	$ 363,409,680	$ 363,409,680	$ —	$ —
Bonds and fixed income investments	60,086,014	60,086,014	—	—
Retirement age-based investments	38,049,669	38,049,669	—	—
Employer securities - SPX Corporation stock	179,376,402	179,376,402	—	—
Common collective trust fund *	145,339,361	—	145,339,361	—
Money market and cash investments	4,616,055	4,616,055	—	—

* The common collective trust fund is a stable value fund which invests in investment contracts (wrap contracts) issued by insurance companies and other financial institutions, fixed income securities and money market funds to provide daily liquidity. Wrap contracts are purchased in conjunction with an investment in fixed income securities, which may include, but are not limited to, U.S. Treasury and agency bonds, corporate bonds, mortgage-backed securities, commercial mortgage-backed securities, asset-backed securities and bond funds.

The fair value of the common collective trust fund is based on discounting the related cash flows of the underlying guaranteed investment contracts based on current yields of similar instruments with comparable durations.

There were no changes in 2011 to the Plan's valuation techniques used to measure investment fair values on a recurring basis. There were no significant transfers between the three levels of the fair value hierarchy during 2011 and 2010. The Plan's policy is to recognize transfers between levels at the beginning of the fiscal year.

The Plan also holds other assets not measured at fair value on a recurring basis, including contribution receivable and participant notes receivable. The fair value of these assets approximates the carrying amounts in the accompanying financial statements due to either the short maturity of the instruments or the use of interest rates that approximate market rates for instruments of similar maturity.

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Schedule of Assets Held at End of Year
Form 5500, Schedule H, Item 4i
EIN 38-1016240, Plan 005
December 31, 2011

(a) (b) Identity of Issuer	(c) Description	(d) Cost	(e) Current Value
	Mutual funds:		
Fidelity	Fidelity Real Estate Investment	*	9,677,924
Fidelity	Fidelity International Small Cap	*	8,337,193
Fidelity	Fidelity Low-Priced Stock Fund	*	33,360,298
Fidelity	Neuberger Berman Genesis Instl	*	13,887,942
Fidelity	Fidelity Freedom 2000 Fund	*	1,137,767
Fidelity	Fidelity Freedom 2005 Fund	*	336,773
Fidelity	Fidelity Freedom 2010 Fund	*	6,329,188
Fidelity	Fidelity Freedom 2015 Fund	*	2,360,753
Fidelity	Fidelity Freedom 2020 Fund	*	17,389,695
Fidelity	Fidelity Freedom 2025 Fund	*	2,051,566
Fidelity	Fidelity Freedom 2030 Fund	*	9,721,436
Fidelity	Fidelity Freedom 2035 Fund	*	632,645
Fidelity	Fidelity Freedom 2040 Fund	*	5,301,471
Fidelity	Fidelity Freedom 2045 Fund	*	219,395
Fidelity	Fidelity Freedom 2050 Fund	*	119,474
Fidelity	Fidelity Capital & Income	*	10,918,765
Fidelity	Fidelity Freedom Income	*	1,930,155
Fidelity	Fidelity Capital Appreciation K	*	18,444,029
Fidelity	Fidelity Contrafund K	*	46,085,541
Fidelity	Fidelity Equity-Income K	*	24,007,344
Fidelity	Fidelity Growth Company K	*	35,465,638
Fidelity	Fidelity International Discovery K	*	24,711,964
Fidelity	Fidelity Puritan K	*	48,964,818
Fidelity	Spartan US Bond Index Fund	*	13,913,247
Fidelity	Spartan 500 Index Fund	*	36,796,684
Fidelity	T. Rowe Price Dividend Growth Fund	*	2,297,232
Fidelity	T. Rowe Price Mid-Cap Growth Fund	*	11,193,068
Fidelity	William Blair Small Cap Value Fund	*	185,713
Fidelity	Goldman Sachs Growth Opportunities Fund	*	71,251
Fidelity	American Beacon Large Cap Value Fund	*	5,252,540
Fidelity	Invesco Capital Development Fund	*	463,324
Fidelity	Spartan Extended Market Index Inv	*	216,768
Fidelity	Spartan International Index Inv	*	140,844

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Schedule of Assets Held at End of Year (Continued)
Form 5500, Schedule H, Item 4i
EIN 38-1016240, Plan 005
December 31, 2011

(a) (b) Identity of Issuer	(c) Description	(d) Cost	(e) Current Value
Fidelity	Baron Growth Institution	*	10,165,157
Fidelity	PIMCO Total Return Instl	*	37,147,184
	Employer securities:		
Fidelity	SPX Corporation stock	*	157,142,959
	Common collective trust fund:		
Fidelity	Fidelity Managed Income Portfolio II	*	149,314,510
Fidelity	**Money market fund**	*	4,287,572
Participants	Participant notes receivable bearing interest at rates from 4.00 percent to 10.50 percent	—	20,401,065

Total net investments	**$ 770,380,892**

* Cost information not required

Schedule 1

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SIGNATURES

The Plan. Pursuant to the requirements of the Securities Exchange Act of 1934, the trustees (or other persons who administer the employee benefit plan) have duly caused this annual report to be signed on its behalf by the undersigned hereunto duly authorized.

SPX RETIREMENT SAVINGS AND STOCK OWNERSHIP PLAN

By: The SPX Administrative Committee

Date: June 22, 2012

By: /s/ Kevin L. Lilly
Kevin L. Lilly
Senior Vice President, Secretary and General Counsel and
Member of the SPX Administrative Committee

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Exhibit Index

Exhibit No.	Description
23.1	Consent of Plante & Moran, PLLC

Exhibit 23.1

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the registration statement (Nos. 333-29843, 333-70245, 333-69252, and 333-139351) on Form S-8 of our report dated June 21, 2012 appearing in the annual report on Form 11-K of SPX Corporation Retirement Savings and Stock Ownership Plan as of December 31, 2011 and 2010 and for the year ended December 31, 2011.

/s/ Plante & Moran, PLLC
Southfield, Michigan
June 22, 2012