U.S. SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D. C. 20549

FORM 11-K

ANNUAL REPORT

Pursuant to Section 15 (d) of the

Securities and Exchange Act of 1934

For the fiscal year ended December 31, 2005

A. Full title of the plan and the address of the plan if different from that of the issuer named below:

AMENDED AND RESTATED CRANE CO. SAVINGS

AND INVESTMENT PLAN

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

100 First Stamford Place

Stamford, Connecticut 06902

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Trustees and Participants of the Amended and Restated Crane Co. Savings and Investment Plan:

We have audited the accompanying statements of assets available for benefits of the Amended and Restated Crane Co. Savings and Investment Plan (the Plan) as of December 31, 2005 and 2004, and the related statements of changes in assets available for benefits for the years then ended. 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 audit 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 controls over financial reporting. Our audits 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, such financial statements present fairly, in all material respects, the assets available for benefits of the Plan at December 31, 2005 and 2004, and the changes in assets available for benefits for the years then ended in conformity with accounting principles generally accepted in the United States of America.

Our audits were conducted for the purpose of forming an opinion on the basic financial statements taken as a whole. The supplemental schedules of (1) assets (held at end of year) as of December 31, 2005, and (2) transactions in excess of five percent of the current value of plan assets for the year ended December 31, 2005, are presented for the purpose of additional analysis and are not a required part of the basic financial statements, but are supplementary information required by the Department of Labor s Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. These schedules are the responsibility of the Plan s management. Such schedules have been subjected to the auditing procedures applied in our audit of the basic 2005 financial statements and, in our opinion, are fairly stated in all material respects when considered in relation to the basic financial statements taken as a whole.

Deloitte & Touche LLP

Stamford, Connecticut

June 29, 2006

STATEMENTS OF ASSETS AVAILABLE FOR BENEFITS

DECEMBER 31, 2005 AND 2004

	2005	2004
<u>ASSETS</u>		
INVESTMENTS, AT FAIR VALUE:		
Crane Co. Stock Fund	\$ 68,605,793	\$ 60,208,406
Huttig Stock Fund	1,263,255	1,949,359
Jennison Growth Fund Z	35,306,699	29,285,100
Dryden Stock Index Fund I		15,939,954
Wells Fargo Stable Value Fund A		55,798,062
Lord Abbett Mid Cap Value Fund A	18,063,938	12,495,725
American Balanced Fund A	20,070,420	15,057,709
Jennison Small Company Fund Z	7,064,596	6,388,295
MFS Mid-Cap Growth Fund A	9,011,829	7,356,119
Fidelity Advisor Dividend Growth Fund T		23,014,923
Templeton Foreign Fund A	13,146,666	10,795,683
Stable Value Fund	63,283,086	
Eaton Vance Large Cap Value Fund A	26,132,782	
Dryden S&P 500 Index Fund	15,933,130	
Loan Fund	7,770,719	7,408,330
Total investments	285,652,913	245,697,665
RECEIVABLES:		
Company contributions	275,907	79,650
Employee contributions	911,664	222,177
Employee loan payments	171,967	34,378
Total receivables	1,359,538	336,205
ASSETS AVAILABLE FOR BENEFITS	\$ 287,012,451	\$ 246,033,870

See notes to financial statements.

STATEMENTS OF CHANGES IN ASSETS AVAILABLE FOR BENEFITS FOR THE YEARS ENDED DECEMBER 31, 2005 AND 2004

	2005	2004
CONTRIBUTIONS		
Employee	\$ 17,956,298	\$ 16,825,621
Company	5,935,823	5,327,610
Total contributions	23,892,121	22,153,231
GAIN ON INVESTMENTS, NET		
Interest	418,075	368,561
Dividends	2,024,772	1,796,588
Net appreciation in fair value of investments	23,997,994	10,574,592
Total gain on investments, net	26,440,841	12,739,741
Distributions to participants	(26,115,473)	(16,341,266)
Rollovers and transfers from other plans	16,874,310	1,564,595
Administrative expense	(113,218)	(142,209)
Net increase in assets available for benefits	40,978,581	19,974,092
Assets available for benefits, beginning of year	246,033,870	226,059,778
Assets available for benefits, end of year	\$ 287,012,451	\$ 246,033,870

See notes to financial statements.

Notes to Financial Statements

1. DESCRIPTION OF THE PLAN

The following is a brief description of the Amended and Restated Crane Co. Savings and Investment Plan (the Plan). Participants should refer to the Plan document and amendments for more complete information and for description of terms used herein.

- A. <u>General</u> The Plan is a defined contribution plan covering certain United States of America (U.S.) employees of Crane Co. and its subsidiaries (the Company). The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA).
- B. <u>Plan Amendments</u> The Plan was amended effective January 1, 1997 designating the portion of the Plan invested in the Crane Co. Stock Fund consisting of (a) Company matching contributions, and (b) participants deferred savings contributions that participants have elected to invest in the Crane Co. Stock Fund, as an Employee Stock Ownership Plan, as defined in Section 4975 of the Internal Revenue Code (the Code). Effective June 1, 1997, employees are eligible to participate in the Plan on the first day of the month coinciding with or following their date of hire. The Plan was amended and restated effective December 31, 2002. Effective December 22, 2003, an amendment was made to the Plan to allow any participant who has a fully vested interest in the participant s account to be permitted to direct the Plan as to the investment of all or any portion of the participant s account balance attributable to Company Stock and allocated to the Company Matching Contribution Stock Fund or the Crane Co. Stock Fund, or any successor fund.
- C. <u>Administration of the Plan</u> The authority to manage, control and interpret the Plan is vested in the Administrative Committee (the Committee) of the Company. The Committee, which is appointed by the Board of Directors of the Company, appoints the Plan Administrator and is the named fiduciary within the meaning of ERISA.
- D. <u>Participation</u> Subject to certain conditions, U.S. employees of Crane Co. are eligible to participate in the Plan upon completing the enrollment process following their date of hire.
- E. <u>Contributions and Funding Policy</u> Participants may elect to contribute to the Plan from one to twenty-five percent of their annual compensation. The contribution limit for highly compensated employees, those whose earnings equal or exceed \$95,000, is limited to ten percent. Participants who have attained age 50 before the close of the Plan year will be eligible to make Catch-Up Contributions in accordance with, and subject to the limits of, Section 414(v) of the Code. Contributions are invested in funds selected by the participant. The Company contributes on a matching basis an amount equal to 50 percent, of up to the first six percent of each participant s deferred savings, which is invested in the Crane Co. Stock Fund. In accordance with the Code, participant pretax contributions could not exceed \$14,000 in 2005 and \$13,000 in 2004. Discrimination tests are performed annually; any test discrepancies would result in refunds to the participants.
- F. <u>Investments</u> Participants direct the investment of their contributions into various investment options offered by the Plan. Company contributions are automatically invested in Crane Co. Stock Fund. The Plan currently offers mutual funds and a common collective trust as investment options for participants.
- G. Expenses Plan administrative expenses (except those associated with the Crane Co. Stock Fund and the Huttig Stock Fund) are paid by the Company. In addition, personnel and facilities of the Company used by the Plan for its accounting and other activities are provided at no charge to the Plan. Commission fees and administrative expenses incurred by the Crane Co. Stock Fund and the Huttig Stock Fund are paid by the respective funds through automatic unit deductions. Participant loan fees are paid by the participant through automatic deductions.

- H. <u>Participant Accounts</u> Individual accounts are maintained for each Plan participant. Each participant s account is credited with the participant s contribution, the Company s matching contribution and Plan earnings, and charged with withdrawals and Plan losses. Allocations are based on participant earnings or account balances, as defined. The benefit to which a participant is entitled is the benefit that can be provided from the participant s vested account.
- I. Vesting Employee contributions are 100% vested. Vesting for employer contributions are as follows:

Years of Service	Vested Interest
Less than 1 year	None
1 year but fewer than 2	20%
2 years but fewer than 3	40%
3 years but fewer than 4	60%
4 years but fewer than 5	80%
5 years or more	100%

Participants whose employment terminates by reason of death, permanent disability or retirement are fully vested. Participants are fully vested upon the attainment of age sixty-five (65).

- J. <u>Forfeited Accounts</u> At December 31, 2005 and 2004, forfeited nonvested accounts totaled \$541,164 and \$560,959, respectively. These accounts will be used to reduce future employer contributions. During the years ended December 31, 2005 and 2004, employer contributions were reduced by \$12,558 and \$305,831, respectively, from forfeited nonvested accounts.
- K. <u>Distributions</u> Upon retirement, disability, termination of employment or death, a participant or designated beneficiary will receive a lump sum payment equal to the participant s account balance. If the participant s account balance is greater than \$1,000, the participant may elect to defer the withdrawal until reaching the age of 65. A participant may apply to the Committee for a distribution in cases of hardship. The Committee has the sole discretion to approve or disapprove hardship withdrawal requests, in accordance with the Internal Revenue Code. Any part of a participant s unvested Company contribution at the time of termination of employment is forfeited and used to reduce future Company contributions.
- L. <u>Plan Termination</u> The Company expects to continue the Plan indefinitely, but reserves the right to modify, suspend or terminate the Plan at any time, which includes the right to vary the amount of, or to terminate, the Company s contributions to the Plan. In the event of the Plan s termination or discontinuance of contributions hereunder, the interest of each participant in benefits earned to such date, to the extent then funded, is fully vested and non-forfeitable. Subject to the requirements of the Code, the Board of Directors shall thereupon direct either (i) The Prudential Trust Company (Trustee) to hold the accounts of participants in accordance with the provisions of the Plan without regard to such termination until all funds in such accounts have been distributed in accordance with such provisions, or (ii) the Trustee to immediately distribute to each participant all amounts then credited to the participant s account as a lump sum.
- M. <u>Tax Status</u> The Internal Revenue Service has determined and informed the Company by letter dated November 14, 2003 that the Plan and related trust are designed in accordance with applicable sections of the Internal Revenue Code (IRC). The Plan has been amended since receiving the determination letter. Although the Plan has been amended since receiving the determination letter, the Plan Administrator believes that the Plan is designed and is currently being operated in compliance with the applicable requirements of the IRC. Therefore, no provision for income taxes has been included in the Plan s financial statements.

N. <u>Rollovers and Transfers from Other Plans</u> Rollovers and transfers from other qualified plans are accepted by the Plan. Rollovers and transfers represent contributions of assets from other qualified plans of companies acquired by Crane Co. and participant account balances of new employees from other non-company qualified plans.

On January 3, 2005 the assets from the P.L. Porter 401(k) Plan (Porter) merged into the Plan. The total assets transferred were \$16,121,842. The funds existing in the Porter plan were transferred to the comparable investment options of the Plan.

O. <u>Participant Loan Fund</u> Participants may borrow from their fund accounts a minimum of \$1,000 up to a maximum equal to the lesser of \$50,000 or 50 percent of their account balance. Loan transactions are treated as transfers between investment funds and the Loan Fund. Loan terms range from one to five years or up to 15 years for the purchase of a primary residence. The loans are secured by the balance in the participant s account and bear interest at the prevailing prime lending rate on the first day of the Plan year plus two percent. Principal and interest are paid ratably through regular payroll deductions.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The following is a summary of the significant accounting and reporting policies followed in preparation of the financial statements of the Plan.

A. <u>Basis of Accounting</u> The financial statements of the Plan have been prepared in conformity with accounting principles generally accepted in the United States of America.

B. Investment Valuation The Plan s investments are recorded at fair value. Investments in mutual funds are valued at the closing composite price published for the last business day of the year. The Wells Fargo Stable Value Fund A and the Stable Value Fund are common collective trust funds administered by Wells Fargo Bank, N.A. (the Bank). The value of this investment is based on the underlying unit value reported by the Bank. The Crane Co. Stock Fund and Huttig Stock Fund are valued at the quoted market price of the respective company s common stock. Participant loans are valued at outstanding loan balance, which approximates fair value.

Below are the investments whose fair value individually represented 5% or more of the Plan s assets as of December 31, 2005 and 2004:

	Decembe	er 31, 2005	December 31, 2004		
	Shares/Units	Market Value	Shares/Units	Market Value	
Crane Co. Stock Fund	1,945,160	\$ 68,605,793	2,087,670	\$ 60,208,406	
Jennison Growth Fund Z	2,121,797	35,306,699	2,009,959	29,285,100	
Dryden Stock Index Fund I			591,025	15,939,954	
Wells Fargo Stable Value Fund A			1,580,126	55,798,062	
Lord Abbett Mid Cap Value Fund A	806,066	18,063,938	552,175	12,495,725	
American Balanced Fund A	1,126,286	20,070,420	836,539	15,057,709	
Fidelity Advisors Dividend Growth Fund T			1,965,408	23,014,923	
Stable Value Fund	1,702,957	63,283,086			
Eaton Vance Large Cap Value Fund A	1,418,718	26,132,782			
Dryden S&P 500 Index Fund	216.643	15.933.130			

The Plan s investments, including gains and losses on investments bought and sold, as well as held during the period, appreciated (depreciated) in value as follows:

	2005	2004
Mutual Funds	\$ 8,933,571	\$ 10,965,741
Common and Collective Funds	2,236,751	1,912,716
Common Stocks	12,827,672	(2,303,865)
	\$ 23,997,994	\$ 10,574,592

C. Nonparticipant-Directed Investments

A portion of the Crane Co. Stock Fund is considered a nonparticipant-directed investment for the Plan. Information about the net assets and the significant components of the changes in assets relating to this investment are as follows:

	December 51,		
	2005	2004	
Assets:			
Common stock	\$ 53,673,891	\$ 45,228,777	

	Year ended December 31, 2005	Year ended December 31, 2004
Changes in assets:		
Contributions	\$ 5,599,648	\$ 5,649,532
Dividends	702,058	624,137
Net appreciation (depreciation)	10,081,345	(2,903,660)
Benefits paid to participants	557,516	620,387
Transfers to participant-directed investments	3,152,401	2,421,372

D. <u>Investment Transactions and Income Recognition</u> Investment transactions are accounted for on the date purchases or sales are executed. Dividend income is accounted for on the ex-dividend date. Interest income is recorded on the accrual basis as earned. Total income of each fund is allocated monthly to participants accounts within the fund based on the participant s relative beginning balance.

- E. Distributions to Participants Benefit payments are recorded when paid.
- F. <u>Use of Estimates</u> The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires Plan management to make estimates and assumptions that affect the reported amounts of assets available for benefits and changes therein and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.
- G. <u>Risks and Uncertainties</u> The Plan utilizes various investment instruments, including mutual funds, common stock and common collective trusts. Investment securities, in general, are exposed to various risks, such as interest rate, credit, and overall market volatility. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the financial statements.

December 31

3. RELATED-PARTY TRANSACTIONS

Certain Plan investments are shares of mutual funds managed by Prudential Financial. Prudential Financial is the trustee as defined by the Plan, and, therefore, these transactions qualify as party-in-interest transactions. Balances of these funds at December 31, 2005 and 2004 were \$58,304,425 and \$51,613,349, respectively. These funds earned dividend income of \$265,516 and \$262,036 for the years ended December 31, 2005 and 2004, respectively. Fees incurred for investment management services, if any, were paid by the Company.

At December 31, 2005 and 2004, the Plan held 1,945,160 and 2,087,670 shares, respectively, of common stock of Crane Co., the sponsoring employer, with a cost basis of \$44,098,084 and \$45,418,498, respectively, and fair value of \$68,605,793 and \$60,208,406, respectively. During the year ended December 31, 2005 and 2004, the Plan recorded dividend income of \$921,524 and \$838,036, respectively, related to its investment in the common stock of Crane Co.

Certain officers and employees of the Company (who may also be participants in the Plan) perform administrative services related to the operation and financial reporting of the Plan. The Company pays these individuals salaries and also pays other administrative expenses on behalf of the Plan. Certain fees, to the extent not paid by the Company, are paid by the Plan.

These transactions are not deemed prohibited party-in-interest transactions, because they are covered by statutory and administrative exemptions from the Code and ERISA s rules on prohibited transactions.

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the Administrative Committee of the Amended and Restated Crane Co. Savings and Investment Plan has duly caused this annual report to be signed on its behalf by the undersigned thereunto duly authorized.

ADMINISTRATIVE COMMITTEE OF THE

AMENDED AND RESTATED CRANE CO.

SAVINGS AND INVESTMENT PLAN

/s/ J. Robert Vipond J. Robert Vipond On behalf of the Committee

/s/ A. I. duPont A.I. duPont On behalf of the Committee

Stamford, CT

June 29, 2006

FORM 5500, SCHEDULE H, PART IV, LINE 4i - SCHEDULE OF ASSETS

(HELD AT END OF YEAR)

DECEMBER 31, 2005

	Description of Investment,		
Identity of Issue, Borrower, Lessor	Including Maturity Date, Rate of Interest, Collateral, and Par		
or Similar Party	or Maturity Value	Cost	Current Value
Crane Co. Stock Fund*	Common Stock Fund	\$ 44,098,084	\$ 68,605,793
Huttig Stock Fund	Common Stock Fund	**	1,263,255
Jennison Growth Fund Z*	Registered Investment Co.	**	35,306,699
Lord Abbett Mid Cap Value Fund A	Registered Investment Co.	**	18,063,938
American Balanced Fund A	Registered Investment Co.	**	20,070,420
Jennison Small Company Fund Z *	Registered Investment Co.	**	7,064,596
MFS Mid-Cap Growth Fund A	Registered Investment Co.	**	9,011,829
Templeton Foreign Fund A	Registered Investment Co.	**	13,146,666
Stable Value Fund	Common Collective Trust	**	63,283,086
Eaton Vance Large Cap Value Fund A	Registered Investment Co.	**	26,132,782
Dryden S&P 500 Index Fund *	Registered Investment Co.	**	15,933,130
Loans to Participants*			

Loans have interest rates ranging from 5.00% to 11.50% and mature in 2006 through 2026 (1,444 loans outstanding).

7,770,719

\$ 285,652,913

Represents a party-in-interest to the plan.

^{**} Cost information is not required for participant-directed investments and therefore is not included.

FORM 5500, SCHEDULE H, PART IV, LINE 4j - SCHEDULE OF REPORTABLE TRANSACTIONS

YEAR ENDED DECEMBER 31, 2005

Identity of party involved	Description of asset	Purchase Price	Selling Price	# of Transactions	Expense Incurred with Transaction	Cost of Asset	Current Value of Asset on Transaction Date	Net Gain
Prudential Investments	Crane Co. Stock*		\$ 11,097,236	196	\$	\$ 8,191,756	\$ 11,097,236	\$ 2,905,480
Prudential Investments	Crane Co. Stock*	\$ 6,334,133		69	\$	\$ 6,334,133	\$ 6,334,133	

^{*} Represents a party-in-interest