

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

FORM 11-K

(Mark One)

- ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
(NO FEE REQUIRED)

For the fiscal year ended December 31, 2005

OR

- TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF
1934 (NO FEE REQUIRED)

Commission File Number 0-3797

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

The MasTec, Inc. 401(k) Retirement Plan

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

MasTec, Inc.
800 S. Douglas Road, 12th Floor
Coral Gables, FL 33134

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**REPORT OF INDEPENDENT REGISTERED
PUBLIC ACCOUNTING FIRM**

The Trustees
The MasTec, Inc. 401(k) Retirement Plan

We have audited the accompanying statements of net assets available for benefits of The MasTec, Inc. 401(k) Retirement Plan (the "Plan") as of December 31, 2005 and December 31, 2004, and the related statement of changes in net assets available for benefits for the year ended December 31, 2005. 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. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes 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 available for benefits of the Plan as of December 31, 2005 and 2004, and the changes in net assets available for benefits for the year ended December 31, 2005, 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, 2005 is presented for purposes of additional analysis and is 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 supplemental schedules are the responsibility of the Plan's management. The supplemental schedules have been subjected to the auditing procedures applied in the audit of the basic financial statements and, in our opinion, are fairly stated in all material respects in relation to the basic financial statements taken as a whole.

/s/ BDO Seidman, LLP
June 28, 2006

Miami, FL

**The MasTec, Inc. 401(k)
Retirement Plan**

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

	December 31,	
	2005	2004
Assets		
Investments, at fair value	\$27,511,887	\$29,401,540
Receivables:		
Contributions from plan participants	240,364	249,552
Total assets and net assets available for benefits	<u>\$27,752,251</u>	<u>\$29,651,092</u>

See accompanying notes to the financial statements.

**The MasTec, Inc. 401(k)
Retirement Plan**

STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

For the Year Ended December 31, 2005

Additions to net assets attributed to:	
Investment income:	
Dividend and interest income	\$ 186,258
Net appreciation in fair value of investments	1,085,450
	<u>1,271,708</u>
Contributions:	
Participants	2,263,639
Rollover and other	330,082
	<u>2,593,721</u>
Total additions	<u>3,865,429</u>
Deductions to net assets attributed to:	
Benefit payments	(5,685,099)
Administrative expenses	(79,171)
Total deductions	<u>(5,764,270)</u>
Net decrease in net assets available for benefits	(1,898,841)
Net assets available for benefits at beginning of year	29,651,092
Net assets available for benefits at end of year	<u>\$27,752,251</u>

See accompanying notes to the financial statements.

**The MasTec, Inc. 401(k)
Retirement Plan**

NOTES TO FINANCIAL STATEMENTS

December 31, 2005 and 2004

NOTE A — DESCRIPTION OF PLAN

Description of the Plan

The following description of The MasTec, Inc. 401(k) Retirement Savings Plan (the “Plan”), as amended, provides only general information. Participants should refer to the Summary Plan Description for a more complete description of the Plan’s provisions.

General

The Plan is a defined contribution plan covering all eligible employees of MasTec, Inc. (the “Company”) who have completed at least six months of service. Employees enter the Plan on the first day of the month coinciding with or the next month following the date on which they meet the eligibility requirements. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (“ERISA”), as amended.

Plan Amendment

Effective August 1, 2003, the Plan was amended and restated and a new custodian of the Plan was appointed. Plan assets transferred to the new custodian were transferred into funds comparable to those offered by the previous custodian. The conversion initiated a “Black Out” period. During this period, there were no exchanges among employee-directed accounts until the custodian had time to accurately complete the conversion. At the end of the Black Out period, these funds were transferred to the new custodian and invested in the new funds. The amended and restated Plan document incorporated the new requirements of the Uruguay Round Agreements Act, Uniformed Services Employment and Reemployment Rights Act of 1994, Small Business Job Protection Act of 1996, Taxpayer Relief Act of 1997, and the Internal Revenue Service Restructuring and Reform Act of 1998. In late 2003, the Plan was again amended to take into account provisions of the Economic Growth and Tax Relief Reconciliation Act of 2001 (“EGTRRA”).

Effective March 28, 2005, the Plan adopted the automatic rollover rules, as specified by the EGTRRA, which mandate that a terminated participant with a vested balance of more than \$1,000, but equal or less than \$5,000 will have their vested account balance rolled over to an Individual Retirement Account (“IRA”) if the terminated participants fail to make a distribution election.

Contributions

Each year, participants may elect to defer from 1% to 75% of pretax annual compensation received during the year, subject to certain limitations as defined by the Plan. Participants may contribute amounts representing distributions from other qualified defined contribution or defined benefit plans at the discretion of the Plan administrator. The Company, at its option, may make discretionary matching contributions for participants. For 2005, the Company did not make a discretionary matching contribution to the Plan.

Contributions from participants are recorded when payroll deductions are made. The Plan is required to return contributions received during the Plan year in excess of the Internal Revenue Service (“IRS”) limits.

Upon enrollment, a participant may direct employee contributions in 1% increments to any of the Plan’s fund options. Participants may change their investment options daily.

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The discretionary Company contributions accrue to the Plan when declared and are remitted prior to the date the Company files its federal income tax return for the corresponding fiscal year of the Company. The Company matching contribution is in the form of Company common stock and is not subject to participant direction. During the year ended December 31, 2005, there were no discretionary contributions made to the Plan.

Participants' Accounts

Each participant's account is credited with the participant's contributions and allocations of the Company's contribution and Plan investment results. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account. Upon distribution of the account to a participant who separates from service before vesting, the portion of the account attributable to Company contributions is ctd. Forfeited balances of participants' nonvested accounts are used to reduce future Company contributions or pay administrative expenses of the Plan.

Vesting

Participants are immediately vested in their voluntary contributions plus actual earnings thereon. A Plan year during which an employee works for at least 1,000 hours is counted as one year of vesting service. A participant becomes 100% vested in the remainder of his or her account upon the occurrence of any of the following events:

- (a) The participant dies while in service as an employee;
- (b) The participant becomes totally and permanently disabled while still in service as an employee; or
- (c) The Plan is terminated by the Company.

Vesting in the Company contribution portion of their account plus actual earnings thereon is based on the years of vesting service. This is based upon the following gradual vesting scale:

<u>Years of Service</u>	<u>Percentage</u>
1	33%
2	66%
3 or more	100%

Forfeitures

Forfeitures of nonvested participant account balances are allocated to the general funds of the Plan and are applied first to pay administrative expenses of the Plan paid for by the Company and then to reduce contributions otherwise required of the employer. At December 31, 2005 and 2004, unallocated forfeited accounts totaled \$226,825 and \$221,282, respectively.

Participant Loans

A participant is only entitled to make a withdrawal from his or her account prior to separation from service if the participant qualifies for a hardship withdrawal or a participant loan. The Plan's loan feature allows participants and beneficiaries to borrow up to a maximum equal to the lesser of \$50,000 or 50% of their accrued vested benefit. The loans bear interest at the published prime rate in the Wall Street Journal plus 1%, at the date of the loan. Loan terms range from 1 to 5 years or may exceed 5 years for the purchase of a primary residence. Loans provide level amortization for repayments to be made not less frequently than on a quarterly basis. Repayment generally is made by payroll deduction. Participants pay certain administrative expenses associated with the loan, including document preparation and filing fees.

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Payments of Benefits

Upon termination of service due to death, disability, or retirement, a participant is entitled to receive payment of the vested accrued benefit in a single lump sum or the payment can be deferred until a later retirement age upon election by the participant. For termination of service due to other reasons, a participant is entitled to receive only the vested percentage of his account balance.

NOTE B — SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Presentation

The financial statements of the Plan are prepared in conformity with accounting principles generally accepted in the United States of America.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates that affect the amounts reported in the financial statements and accompanying notes. Actual results could differ from those estimates.

Risks and Uncertainties

The Plan provides for various investment options for participants to choose in combinations of Company stock fund, pooled separate accounts and other investment securities. Investment securities are exposed to various risks, such as interest rate, market and credit. Due to the level of risk associated with certain investment securities and the level of uncertainty related to changes in the value of investment securities, it is at least reasonably possible that changes in risks in the near term would materially affect participants' account balances and the amounts reported in the statement of net assets available for benefits.

Investment Valuation

Plan investments are stated at estimated fair values. The MasTec, Inc. Stock Fund is valued at its quoted price on the last business day of the Plan year. Estimated fair values of the pooled separate accounts and the fixed income fund have been determined based on the unit values of the funds. Unit values at December 31, 2005 and 2004 are determined by Massachusetts Mutual Life Insurance Company ("Mass Mutual") by dividing the fund net assets at fair value by its units of participation outstanding. At December 31, 2005 and 2004, respectively, Mass Mutual is the custodian of the Plan.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Participant loans are valued at cost, which approximates fair value.

Administrative Expenses

All administrative expenses of the Plan are chargeable to the Plan. The Company may, at its sole discretion, pay any such expenses, in whole or in part.

Benefit Payments

Benefits are recorded when paid.

NOTE C — INVESTMENTS

The estimated fair values of individual investments that represent 5% or more of the Plan's net assets at December 31, 2005 and 2004 are as follows:

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	December 31, 2005
Investment Contract #SF51706 with Mass Mutual:	
SF Guaranteed	\$3,670,729
MM Growth Equity	3,280,856
Aggressive Journey	2,776,302
Moderate Journey	2,593,985
Ultra Aggressive Journey	2,055,063
MM Indexed Equity	1,882,428
MM Fundamental Value (Wellington)	1,738,910
MasTec, Inc. Stock Fund (a)	\$4,661,065

(a) Includes nonparticipant-directed amounts.

	December 31, 2004
Investment Contract #SF51706 with Mass Mutual:	
SF Guaranteed	\$4,060,344
MM Growth Equity	3,609,629
Moderate Journey	2,615,270
Aggressive Journey	2,663,480
MM Indexed Equity	2,117,889
Ultra Aggressive Journey	2,044,158
MM Fundamental Value (Wellington)	1,717,112
MasTec, Inc. Stock Fund (a)	\$5,422,633

(a) Includes nonparticipant-directed amounts

The Plan's investments (including investments bought, sold and held during the year) appreciated (depreciated) in fair value for the year ended December 31, 2005 as follows:

Pooled Separate Accounts	\$ 966,049
MasTec, Inc. Stock Fund (a)	119,401
	<u>\$1,085,450</u>

(a) Includes nonparticipant-directed amounts.

NOTE D — NONPARTICIPANT-DIRECTED INVESTMENTS

Information about the net assets and significant components of changes in net assets related to non-participant-directed investment amounts is as follows:

	December 31,	
	<u>2005</u>	<u>2004</u>
MasTec, Inc. Stock Fund	\$2,881,393	\$3,452,232

	Year Ended December 31, 2005
Changes in Net Assets	
Net appreciation in fair value of investments	\$ 69,657
Dividend and interest income	350
Benefit payments	(609,050)
Administrative expenses	(21,763)
Other	(10,033)
	<u>\$(570,839)</u>

NOTE E — INCOME TAX STATUS

On August 1, 2003, the Company adopted the Massachusetts Mutual Life Insurance Company FlexInvest Non-Standardized 401(k) Profit Sharing Plan. This non-standardized prototype plan received a favorable opinion letter from the IRS on April 23, 2002 stating that the form of the plan is acceptable under Section 401(a) of the Internal Revenue Code (the “Code”).

Before restatement of the Plan in August 2003, the MasTec, Inc. 401(k) Retirement Plan was an individually designed Plan for which the IRS issued a favorable determination as to its tax-qualified status by letter dated September 5, 2002.

Once qualified, the Plan is required to operate in conformity with the Code to maintain its qualification.

NOTE F — PARTY-IN-INTEREST TRANSACTIONS

Certain Plan investments include units of pooled separate accounts and a fixed income fund, managed by Mass Mutual. Mass Mutual is the custodian, as defined by the Plan, and therefore, such transactions are considered party-in-interest transactions. The Plan held investments in the Company common stock fund with a fair value of approximately \$4,661,065 and \$5,422,633 as of December 31, 2005 and 2004, respectively. The Company is a related party and these transactions qualify as party-in-interest. In addition, there are \$1,224,721 and \$1,481,970 in outstanding participant loans as of December 31, 2005 and 2004, respectively.

NOTE G — PLAN TERMINATION

Although it has not expressed any intent to do so, the Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, participants become 100% vested in their employer Contributions.

NOTE H — SUBSEQUENT EVENTS

Beginning with the first quarter in 2006, the Company has re-instated its employer match program.

The MasTec, Inc.
401(k) Retirement Plan

Employer Identification Number 65-0829355
Plan # 002

SCHEDULE H, LINE 4i-
SCHEDULE OF ASSETS (HELD AT END OF YEAR)

December 31, 2005

(a)	(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
*	Investment Contract #SF51706 with Mass Mutual:			
	SF Guaranteed	Fixed Income Fund	**	\$ 3,670,729
	Holding Account	Holding		185
	MM Total Return Bond (PIMCO)	Pooled Separate Account	**	274,263
	Conservative Journey	Pooled Separate Account	**	603,642
	Moderate Journey	Pooled Separate Account	**	2,593,985
	Aggressive Journey	Pooled Separate Account	**	2,776,302
	Ultra Aggressive Journey	Pooled Separate Account	**	2,055,063
	MM Fundamental Value (Wellington)	Pooled Separate Account	**	1,738,910
	MM Indexed Equity	Pooled Separate Account	**	1,882,428
	MM Growth Equity	Pooled Separate Account	**	3,280,856
	MM Focused Value (Harris)	Pooled Separate Account	**	258,417
	DLB Sm Co Opportunities (Babson)	Pooled Separate Account	**	521,114
	MM MidCap Growth II (T. Rowe Price)	Pooled Separate Account	**	512,515
	MM Sm Co Growth (Mazama)	Pooled Separate Account	**	241,704
	MM Overseas (Amer. Cent / Harris)	Pooled Separate Account	**	1,215,988
				<u>21,626,101</u>
*	MasTec, Inc. Stock	Separate Account		
	Fund		\$3,163,280	4,661,065
*	Participants' Loans	Loans (interest rates range from 5.25% to 10.00%)		<u>1,224,721</u>
				<u>\$27,511,887</u>

* Represents a party-in-interest

** Not applicable as the investment is participant-directed

SIGNATURES

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

The MasTec, Inc. 401(k) Retirement Plan

/s/ Austin J. Shanfelter

Austin J. Shanfelter

Chairman, Benefits Committee of MasTec, Inc.

Date: June 29, 2006

/s/ C. Robert Campbell

C. Robert Campbell

Chief Financial Officer of MasTec, Inc.

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The Trustees
The MasTec, Inc. 401(k) Retirement Plan

We hereby consent to the incorporation by reference in the Registration Statement on Form S-8 (Registration Statement Number 033-55327) of our report dated June 28, 2006, relating to the financial statements and supplemental schedule of MasTec, Inc. 401 (k) Retirement Plan appearing in the Plan's Annual Report on Form 11-K for the year ended December 31, 2005.

/s/ BDO Seidman, LLP
Miami, FL

June 28, 2006