

MOSAIC CO  
Form 11-K  
June 28, 2011  
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**UNITED STATES**  
**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**

For the fiscal year ended December 31, 2010

OR

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

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission file number 001-32327

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

**MOSAIC INVESTMENT PLAN**

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

**Atria Corporate Center - Suite E490**

**3033 Campus Drive**

**Plymouth, MN 55441**

**763-577-2700**

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**MOSAIC INVESTMENT PLAN**

Financial Statements and Supplemental Schedule

December 31, 2010 and 2009

(With Report of Independent Registered Public Accounting Firm Thereon)

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**MOSAIC INVESTMENT PLAN**

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**Report of Independent Registered Public Accounting Firm**

The Plan Administrator

Mosaic Investment Plan:

We have audited the accompanying statements of net assets available for benefits of the Mosaic Investment Plan (the Plan) as of December 31, 2010 and 2009, and the related statements of changes in net 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. 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 Mosaic Investment Plan as of December 31, 2010 and 2009, and the changes in net assets available for benefits for the years then ended, in conformity with U.S. generally accepted accounting principles.

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, 2010 is presented for the purpose of additional analysis and is not a required part of the basic financial statements but is 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. This supplemental schedule is the responsibility of the Plan management. The supplemental schedule has been subjected to the auditing procedures applied in the audit 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.

Minneapolis, Minnesota

June 28, 2011

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**MOSAIC INVESTMENT PLAN**

Statements of Net Assets Available for Benefits

December 31, 2010 and 2009

	<b>2010</b>	<b>2009</b>
<b>Assets:</b>		
Investments, at fair value	\$ 442,198,440	\$ 377,629,306
<b>Receivables:</b>		
Employer contributions	11,422,003	9,337,438
Loans to participants	5,757,969	5,144,723
Total receivables	17,179,972	14,482,161
Net assets available for benefits before adjustment	459,378,412	392,111,467
Adjustment from fair value to contract value for fully benefit-responsive investment contracts	(2,419,831)	(1,109,229)
Net assets available for benefits	\$ 456,958,581	\$ 391,002,238

See accompanying notes to financial statements.

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## Statements of Changes in Net Assets Available for Benefits

Years ended December 31, 2010 and 2009

	2010	2009
Additions to net assets attributed to:		
Investment income:		
Interest and dividends	\$ 9,788,953	\$ 10,865,503
Net realized and unrealized appreciation in fair value of investments:		
Mutual funds	24,631,666	37,635,009
Mosaic Stock Fund	20,797,436	37,619,168
Net investment income	55,218,055	86,119,680
Contributions:		
Participants	15,854,380	13,607,637
Employer	18,474,499	14,563,757
Total contributions	34,328,879	28,171,394
Asset transfers from qualified plans	53,628	4,642
Other	35,222	64,868
Total additions	89,635,784	114,360,584
Deductions from net assets attributed to:		
Benefits paid	23,470,144	18,329,019
Asset transfers to Mosaic Union Savings Plan		9,129
Administrative fees	209,297	171,027
Total deductions	23,679,441	18,509,175
Net increase	65,956,343	95,851,409
Net assets available for benefits:		
Beginning of year	391,002,238	295,150,829
End of year	\$ 456,958,581	\$ 391,002,238

See accompanying notes to financial statements.

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**MOSAIC INVESTMENT PLAN**

Notes to Financial Statements

December 31, 2010 and 2009

**(1) Description of the Plan**

The following description of the Mosaic Investment Plan (the Plan) provides only general information. Participants should refer to the Plan document for a more complete description of the Plan's provisions.

***(a) General***

The Plan was established on March 1, 1988. The Plan is a defined contribution plan maintained by The Mosaic Company (the Company) for eligible U.S. salaried and nonunion hourly employees. Employees are eligible to participate in the Plan immediately upon their date of hire. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended (ERISA).

***(b) Contributions***

The Plan is funded by contributions from participants in the form of payroll deductions/salary reductions from 1% to 75% of participants' eligible pay (subject to Internal Revenue Service (IRS) annual statutory limits of \$16,500 for 2010 and 2009) in before-tax dollars, after-tax dollars, or a combination of both. Additional before-tax "catch-up" contributions are allowed above the IRS annual dollar limit for employees at least age 50 or who will reach age 50 during a given calendar year. The Plan is also funded by Company matching contributions, which are subject to certain limitations imposed by Section 415 of the Internal Revenue Code (IRC). For the years ended December 31, 2010 and 2009, the Company made matching contributions equal to 100% of the first 3% of the participants' compensation contributed and 50% of the next 3% of the participants' compensation contributed. The Company also makes an annual non-elective employer contribution that is based on a percentage of the employee's eligible pay, subject to certain limitations and requirements. The Company made non-elective employer contributions of \$9,166,741 and \$9,823,630 in 2010 and 2009, respectively. At the sole discretion of Mosaic's Board of Directors or its designee, the Company may make an annual discretionary employer contribution. The Company made discretionary employer contributions of \$961,733 and \$0 in 2010 and 2009, respectively. All or any portion of the profit sharing or Company matching contributions initially deposited to the Mosaic Stock Fund may be in the form of cash or shares of Company common stock. Generally, a participant must be employed on the last day of the Plan year to be eligible for the non-elective employer contribution or the discretionary employer contribution.

Participants may roll over their vested benefits from other qualified benefit plans to the Plan.

***(c) Participant Accounts***

Each participant's account is credited with the participant's contributions and allocations of (a) the Company contributions and (b) Plan earnings and is charged with an allocation of certain administrative expenses. Allocations are based on 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 account.



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**MOSAIC INVESTMENT PLAN**

Notes to Financial Statements

December 31, 2010 and 2009

**(d) Administrative Expenses**

Administrative expenses are to be paid by the Plan but may be paid by the Company.

**(e) Investment Programs**

The Plan's investments are administered by Vanguard Fiduciary Trust Company. Participants can choose from among twenty-four investment funds.

Participants may elect to change the investment direction of their existing account balances and their future contributions daily.

**(f) Vesting**

Participants are immediately vested in the portion of their Plan account related to participant contributions, Company matching contributions, and earnings thereon. Participants are vested in the nonelective employer contribution and the discretionary employer contribution portions of their account after either three years of service, attaining age 65, or death while an employee. Forfeitures of nonvested participant accounts are used first to restore nonelective employer contributions for reemployed employees who are entitled to have forfeitures restored and are then used to offset nonelective employer contributions. In 2010 and 2009, employer contributions were reduced by \$312,604 and \$230,304, respectively, from forfeited nonvested accounts.

In the event a former IMC Global Inc. employee who directly transferred to the Company was involuntarily terminated from employment other than for cause within 24 months of the October 22, 2004 business combination between IMC Global Inc. and Cargill's Crop Nutrition Business unit, the employee became 100% vested in his/her profit sharing account. In the event an employee voluntarily terminates employment or is terminated for cause and he/she has not met the Plan's vesting requirement, the employee's nonelective employer contributions and discretionary employer contributions, if any, will be forfeited.

**(g) Withdrawals**

Participants may withdraw their vested account balance upon termination of employment. Under certain conditions of financial hardship, participants working for the Company may withdraw certain funds, but their participation in the Plan will be suspended for six months. Certain withdrawals are available after age 59 1/2 or in the event of disability. Additionally, while still employed, in-service withdrawals are available subject to certain requirements and limitations.

Subject to potential IRS penalties, participants who terminate their employment and have a vested account balance in excess of \$5,000 may receive their distribution in a lump sum or installments that commence immediately after termination or a later date, but no later than age 70 1/2. Participants may be entitled to additional forms of payment or may need to obtain spousal consent to a distribution or withdrawal if the participant had an account balance from another qualified plan, that plan was maintained by a company that was acquired by the Company, and the participant's account balance was transferred to this Plan.

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**MOSAIC INVESTMENT PLAN**

Notes to Financial Statements

December 31, 2010 and 2009

***(h) Loans to Participants***

Eligible participants may borrow from their fund accounts a minimum loan amount of \$500 up to a maximum equal to the lesser of \$50,000 or 50% of their account balance, whichever is less. Eligible participants may have one loan outstanding at any given time. Account balances attributable to the Company matching contributions are not available for loans, but are included in computing the maximum loan amount. Loan terms range from 1 year to 5 years or up to 10 years for the purchase of a primary residence. The loans are secured by the balance in the participant's account and bear interest at a fixed rate of 1% above the prevailing prime rate, as quoted in *The Wall Street Journal* at time of issuance. Principal and interest are paid through payroll deductions.

Loans to participants are valued at cost plus any accrued but unpaid interest.

***(i) Plan Termination***

Although it has not expressed any interest to do so, the Company reserves the right under the Plan to make changes at any time or even suspend or terminate the Plan subject to the provisions of ERISA.

**(2) Summary of Significant Accounting Policies**

***(a) Investment Valuation and Income Recognition***

Investments are stated at fair value. Fair value is the last reported sales price on the last business day of the month for securities traded on a national securities exchange and in the over-the-counter market. Fair value for shares of mutual and common collective trust funds is the net asset value of those shares or units, as determined by the respective funds.

Purchases and sales of securities are accounted for on a trade-date basis. Dividend income is recorded on the ex-dividend date. Interest from investments is recorded on the accrual basis.

***(b) Basis of Accounting***

The financial statements of the Plan are prepared under the accrual method of accounting.

***(c) Fully Benefit-Responsive Investment Contracts***

As described in the Financial Accounting Standards Board (FASB) issued Staff Position, FASB Accounting Standards Codification (ASC) 946-210-45, *Financial Services Investment Companies, Balance Sheet Other Presentation Matters* (the FSP), investment contracts held by a defined contribution plan are required to be reported at fair value. However, contract value is the relevant measurement attribute for that portion of the net assets available for benefits of a defined contribution plan attributable to fully benefit-responsive investment contracts because contract value is the amount participants would receive if they were to initiate permitted transactions under the terms of the Plan. As required by the FSP, the statements of net assets available for plan benefits present the fair value of the investment contracts as well as the adjustment of the fully benefit-responsive investment contracts from fair value to contract value. The statements of changes in net assets available for benefits is

prepared on a contract value basis.

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**MOSAIC INVESTMENT PLAN**

Notes to Financial Statements

December 31, 2010 and 2009

The Plan invests in a common collective trust fund, Vanguard Retirement Savings Trust, which owns fully benefit-responsive investment contracts. The Plan reports the Vanguard Retirement Savings Trust fund at fair value and recognized an adjustment from fair value to contract value for the fully benefit-responsive investment contracts of \$(2,419,831) and \$(1,109,229) as of December 31, 2010 and 2009, respectively, in the accompanying statements of net assets available for benefits.

***(d) Payment of Benefits***

Benefit payments are recorded when paid.

***(e) Use of Estimates***

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

***(f) New Accounting Pronouncements***

In January 2010, the FASB issued ASU 2010-06, *Improving Disclosures about Fair Value Measurements*. This standard requires further disaggregation of assets and a disclosure of valuation techniques for Level 2 and 3 measurements. The Plan adopted the provisions of the standard for the year ended December 31, 2010. The adoption of these provisions did not have a material effect on the Plan's financial statements.

In September 2010, the FASB's Emerging Issues Task Force (EITF) issued EITF 10-C, *Accounting for Participant Loans in Employee Benefit Plan Financial Statements*, which indicates participant loans should be classified as notes receivable carried at amortized cost plus any accrued but unpaid interest and that such loans are exempt from the fair value and credit quality disclosure requirements. This EITF is effective for periods ending after December 15, 2010 and early adoption is permitted. The adoption of this guidance did not have a material effect on the Plan's financial statements.

**(3) Fair Value Measurements**

ASC 820, *Fair Value Measurements and Disclosures*, defines fair value as the price that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. When determining the fair value measurements for assets and liabilities required to be recorded at fair value, the Plan considers the principal or most advantageous market in which it would transact and considers assumptions that market participants would use when pricing the asset or liability, such as inherent risk, transfer restrictions, and risk of nonperformance.

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Notes to Financial Statements

December 31, 2010 and 2009

ASC 820 also establishes a fair value hierarchy that requires the Plan to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. A financial instrument's categorization within the fair value hierarchy is based upon the lowest level of input that is significant to the fair value measurement. ASC 820 established three levels of inputs that may be used to measure fair value:

Level 1: quoted prices in active markets for identical assets or liabilities;

Level 2: inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices in active markets for similar assets or liabilities, quoted prices for identical or similar assets or liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities; or

Level 3: unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

**Investments Measured at Fair Value on a Recurring Basis**

Investments measured at fair value on a recurring basis consisted of the following types of instruments as of December 31, 2010 and 2009 (Level 1, 2, and 3 inputs are defined above):

	Assets at Fair Value as of December 31, 2010			Total
	Level 1	Level 2	Level 3	
Common stock	\$ 93,631,339	\$	\$	\$ 93,631,339
Mutual funds	287,115,938			287,115,938
Common/collective trust fund		61,451,163		61,451,163
Total investments measured at fair value	\$ 380,747,277	\$ 61,451,163	\$	\$ 442,198,440

	Assets at Fair Value as of December 31, 2009			Total
	Level 1	Level 2	Level 3	
Common stock	\$ 83,609,241	\$	\$	\$ 83,609,241
Mutual funds	242,710,026			242,710,026
Common/collective trust fund		51,310,039		51,310,039
Total investments measured at fair value	\$ 326,319,267	\$ 51,310,039	\$	\$ 377,629,306

Common stocks traded on national exchanges are valued at their closing market prices. Mutual funds are valued at their quoted net asset value.



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Notes to Financial Statements

December 31, 2010 and 2009

The common/collective trust fund is made up of investments in traditional contracts issued by insurance companies and banks, alternative investment contracts, and short-term investments. For traditional investment contracts, fair value is determined by calculating the present value of expected future cash flows for each contract. A contract represents contributions made plus interest accrued at the contract rate, less withdrawals. The fair value for alternative investment contracts is determined by aggregating the market value of the underlying investment in Vanguard mutual funds and bond trusts plus the value of the wrap contract, if any. The investments in mutual funds are valued at the net asset value of each fund or trust determined as of the close of the NYSE on the valuation date. Short-term investments are made up of investments in Vanguard's Prime Money Market fund, which is valued from quoted net asset values.

For the years ended December 31, 2010 and 2009, the Plan held no assets in which significant unobservable inputs (Level 3) were used in determining fair value. The Plan did not have any significant transfers between Levels 1 and 2 during the periods.

**(4) Significant Investments**

Individual investments that represent 5% or more of net assets available for benefits were as follows:

	December 31	
	2010	2009
<b>Mutual funds:</b>		
Vanguard Total International Stock Index Fund	\$ 24,881,981	\$ 23,151,840
Vanguard 500 Index Fund	30,625,704	24,653,493
Vanguard PRIMECAP Fund	28,680,487	26,505,080
Vanguard Target Retirement 2015 Fund	25,059,559	22,688,009
Vanguard Target Retirement 2020 Fund	32,350,250	27,855,520
PIMCO Total Return Fund Institutional Class	33,620,661	31,498,494
<b>Common collective trust fund:</b>		
Vanguard Retirement Savings Master Trust	61,451,163	51,310,039
Mosaic Stock Fund	93,631,339	83,609,241

**(5) Federal Income Tax Status**

The Plan has received a determination letter from the IRS dated October 18, 2010 stating that the Plan is qualified under Section 401(a) of the IRC and, therefore, is exempt from taxation. Subsequent to this determination by the IRS, the Plan was amended. Once qualified, the Plan is required to operate in conformity with the IRC to maintain its qualification. The Plan Administrator believes the Plan is being operated in compliance with the applicable requirements of the IRC, and therefore, the Plan, as amended, is qualified and is tax-exempt.

Accounting principles generally accepted in the United States of America require plan management to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the Internal

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**MOSAIC INVESTMENT PLAN**

Notes to Financial Statements

December 31, 2010 and 2009

Revenue Service. The plan administrator has analyzed the tax positions taken by the Plan, and has concluded that as of December 31, 2010, there are no uncertain positions taken or expected to be taken that would require recognition of a liability (or asset) or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress. The plan administrator believes it is no longer subject to income tax examinations for years prior to 2007.

**(6) 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.

A portion of the Plan's net assets is invested in the common stock of the Company. At December 31, 2010 and 2009, approximately 20% and 21%, respectively, of the Plan's total assets were invested in the Company's common stock. The underlying value of the Company common stock is entirely dependent upon the performance of the Company and the market's evaluation of such performance.

**(7) Party-in-Interest Transactions**

Transactions resulting in Plan assets being transferred to or used by a related party are prohibited under ERISA unless a specific exemption applied. Vanguard Fiduciary Trust Company is a party-in-interest as defined by ERISA as a result of being trustee of the Plan. The Plan invests in funds managed by Vanguard Fiduciary Trust Company. The Plan also engages in transactions involving the acquisition or disposition of common stock of the Company, a party-in-interest with respect to the Plan. The Plan also engages in loans to participants. These transactions are covered by an exemption from the prohibited transactions provisions of ERISA and the Internal Revenue Code.

**(8) Subsequent Events**

The Plan has evaluated subsequent events from the statement of net assets available for benefits date through June 28, 2011, the date at which financial statements were available to be issued, and determined there were no other items to disclose.



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**SUPPLEMENTAL SCHEDULE**

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Schedule

**MOSAIC INVESTMENT PLAN**

Schedule H, Line 4i Schedule of Assets (Held at End of Year)

December 31, 2010

Identity of issuer	Description	Number of shares	Current value
PIMCO	PIMCO Total Return Fund Institutional Class	3,098,678	\$ 33,620,661
T. Rowe Price Trust Co	T. Rowe Price Small-Cap Stock Fund	455,038	15,666,957
Vanguard Fiduciary Trust Company*	Vanguard Inflation-Protected Sec Fund	202,676	2,634,788
	Vanguard Total International Stock Index Fund	1,578,806	24,881,981
	Vanguard Prime Money Market Fund	106,550	106,550
	Vanguard 500 Index Fund	264,425	30,625,704
	Vanguard Small-Cap Index Fund	150,961	5,245,882
	Vanguard PRIMECAP Fund	435,874	28,680,487
	Vanguard Windsor II Fund	824,846	21,173,808
	Vanguard Retirement Savings Master Trust	59,031,332	61,451,163
	Vanguard Total Bond Market Index Fund	394,891	4,185,846
	Vanguard Target Retirement 2005 Fund	313,346	3,675,544
	Vanguard Target Retirement 2015 Fund	2,017,678	25,059,559
	Vanguard Target Retirement 2025 Fund	1,550,190	19,563,399
	Vanguard Target Retirement 2035 Fund	526,794	6,895,733
	Vanguard Target Retirement 2045 Fund	216,942	2,928,714
	Vanguard Target Retirement Income Fund	189,583	2,138,500
	Vanguard Target Retirement 2010 Fund	325,403	7,259,731
	Vanguard Target Retirement 2020 Fund	1,463,812	32,350,250
	Vanguard Target Retirement 2030 Fund	558,675	12,112,068
	Vanguard Target Retirement 2040 Fund	258,105	5,549,262
	Vanguard Target Retirement 2050 Fund	68,181	1,459,074
MFS	MFS Institutional International Equity Fund	72,342	1,301,440
The Mosaic Company*	Mosaic Stock Fund	1,226,183	93,631,339
			\$ 442,198,440

\* Indicates party in interest to the Plan.

See accompanying report of independent registered public accounting firm.

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SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the trustee (or other person who administers the employee benefit plan) has duly caused this annual report to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Plymouth, State of Minnesota, on the 28th day of June, 2011.

**MOSAIC INVESTMENT PLAN**

By: People Working Group,  
as Plan Administrator

By: /s/ Cindy C. Redding  
Cindy C. Redding, Chair

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**Exhibit Index**

<i>Exhibit No.</i>	<i>Description</i>	<i>Incorporated Herein by Reference to</i>	<i>Filed with Electronic Submission</i>
23	Consent of KPMG LLP, independent registered public accounting firm E-1		X