

The Securities and Exchange Commission has not necessarily reviewed the information in this filing and has not determined if it is accurate and complete.

The reader should not assume that the information is accurate and complete.

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**FORM 13F**

**FORM 13F COVER PAGE**

**OMB APPROVAL**

OMB Number:	3235-0006
Expires:	July 31, 2015
Estimated average burden hours per response:	23.8

Report for the Calendar Year or Quarter Ended: 09-30-2016

Check here if Amendment ☐ Amendment Number:

This Amendment (Check only one.): ☐ is a restatement.

☐ adds new holdings entries.

**Institutional Investment Manager Filing this Report:**

Name: DOW CHEMICAL CO /DE/

Address: 2030 DOW CENTER

Midland, MI 48674-2030

Form 13F File  
Number: 028-00590

The institutional investment manager filing this report and the person by whom it is signed hereby represent that the person signing the report is authorized to submit it, that all information contained herein is true, correct and complete, and that it is understood that all required items, statements, schedules, lists, and tables, are considered integral parts of this form.

Person Signing this Report on Behalf of Reporting Manager:

Name: Ronald C. Edmonds

Title: Vice President & Controller

Phone: 989-636-5018

**Signature, Place, and Date of Signing:**

/s/ Ronald C. Edmonds      Midland, MI      11-14-2016  
[Signature]      [City, State]      [Date]

**Report Type (Check only one.):**

☒ 13F HOLDINGS REPORT. (Check here if all holdings of this reporting manager are reported in this report.)

☐ 13F NOTICE. (Check here if no holdings reported are in this report, and all holdings are reported by other reporting manager(s).)

☐ 13F COMBINATION REPORT. (Check here if a portion of the holdings for this reporting manager are reported in this report and a portion are reported by other reporting manager(s).)

**Form 13F Summary Page**

**Report Summary:**

Number of Other Included Managers: 0

Form 13F Information Table Entry Total: 30

Form 13F Information Table Value Total: 1,022,740  
(thousands)

**List of Other Included Managers:**

Provide a numbered list of the name(s) and Form 13F file number(s) of all institutional investment managers with respect to which this report is filed, other than the manager filing this report.

[If there are no entries in this list, state "NONE" and omit the column headings and list entries.]

NONE

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**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**FORM 13F**

**OMB APPROVAL**

OMB Number: 3235-0006  
Expires: July 31, 2015  
Estimated average burden  
hours per response: 23.8

**FORM 13F INFORMATION TABLE**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8		
NAME OF ISSUER	TITLE OF CLASS	CUSIP	VALUE (x\$1000)	SHRS OR SH/ PRN AMT	PUT/ CALL	INVESTMENT DISCRETION	OTHER MANAGER	VOTING AUTHORITY SOLE SHARED NONE	
FLEXSHARES TR	MORNSTAR UPSTR	33939L407	11,797	428,500 SH		SOLE		428,500	0 0
FORTRESS TRANS INFRST INVS L	COM REP LTD LIAB	34960P101	41,764	3,338,482 SH		SOLE		3,338,482	0 0
ISHARES TR	CORE S&P500 ETF	464287200	108,217	497,412 SH		SOLE		497,412	0 0
ISHARES TR	MSCI EMG MKT ETF	464287234	146,818	3,920,376 SH		SOLE		3,920,376	0 0
JPMORGAN CHASE & CO	ALERIAN ML ETN	46625H365	62,026	1,969,090 SH		SOLE		1,969,090	0 0
POWERSHARES DB CMDTY IDX TRA	UNIT BEN INT	73935S105	11,677	777,950 SH		SOLE		777,950	0 0
SELECT SECTOR SPDR TR	SBI INT-UTILS	81369Y886	25,190	514,189 SH		SOLE		514,189	0 0
SELECT SECTOR SPDR TR	SBI HEALTHCARE	81369Y209	39,993	554,607 SH		SOLE		554,607	0 0
SELECT SECTOR SPDR TR	SBI CONS STPLS	81369Y308	29,457	553,607 SH		SOLE		553,607	0 0
SELECT SECTOR SPDR TR	SBI MATERIALS	81369Y100	15,300	320,410 SH		SOLE		320,410	0 0
SELECT SECTOR SPDR TR	SBI CONS DISCR	81369Y407	22,203	277,393 SH		SOLE		277,393	0 0
SELECT SECTOR SPDR TR	SBI INT- ENERGY	81369Y506	15,854	224,527 SH		SOLE		224,527	0 0
SELECT SECTOR SPDR TR	SBI INT-FINL	81369Y605	25,714	1,332,332 SH		SOLE		1,332,332	0 0
SELECT SECTOR SPDR TR	SBI INT-INDS	81369Y704	20,083	343,997 SH		SOLE		343,997	0 0
SELECT SECTOR SPDR TR	TECHNOLOGY	81369Y803	48,258	1,010,000 SH		SOLE		1,010,000	0 0
SELECT SECTOR SPDR TR	RL EST SEL SEC	81369Y860	6,440	196,520 SH		SOLE		196,520	0 0
SPDR S&P 500 ETF TR	TR UNIT	78462F103	218,656	1,010,893 SH		SOLE		1,010,893	0 0
SPDR SERIES TRUST	S&P OILGAS EXP	78464A730	1,435	37,321 SH		SOLE		37,321	0 0
SPDR SERIES TRUST	S&P BIOTECH	78464A870	1,989	30,000 SH		SOLE		30,000	0 0
TETRAPHASE PHARMACEUTICALS I	COM	88165N105	249	65,000 SH		SOLE		65,000	0 0
VANECK VECTORS ETF TR	OIL SVCS ETF	92189F718	439	15,000 SH		SOLE		15,000	0 0
VANGUARD INDEX FDS	REIT ETF	922908553	26,594	306,600 SH		SOLE		306,600	0 0
VANGUARD INTL EQUITY INDEX F	FTSE EMR MKT ETF	922042858	24,498	651,022 SH		SOLE		651,022	0 0

VANGUARD WORLD FDS	INF TECH ETF	92204A702	602	5,000	SH	SOLE	5,000	0	0
PFENEX INC	COM	717071104	19,882	2,221,428	SH	SOLE	2,221,428	0	0
AGROFRESH SOLUTIONS	COM	00856G109	92,575	17,500,000	SH	SOLE	17,500,000	0	0
AMICUS THERAPEUTICS INC	COM	03152W109	109	14,674	SH	SOLE	14,674	0	0
ARDELYX INC	COM	039697107	23	1,798	SH	SOLE	1,798	0	0
OLD REPUBLIC INTL CORP	COM	680223104	218	12,375	SH	SOLE	12,375	0	0
AGROFRESH SOLUTIONS	WARRANTS	00856G117	4,680	6,000,000	SH	SOLE	6,000,000	0	0