SCHEDULE 13G

(Rule 13d-102)

Information to be Included in Statements Filed Pursuant to Rule 13d-1(b), (c) and (d) and Amendments Thereto Filed Pursuant to Rule 13d-2.

SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

Under the Securities Exchange Act of 1934 (Amendment No.)*

Mallinckrodt PLC (Name of Issuer)

Common Stock

(Title of Class of Securities)

G5785G107

(CUSIP Number)

December 31, 2013

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- [X] Rule 13d-1(b)
 [_] Rule 13d-1(c)
 [_] Rule 13d-1(d)
- * The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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CUSIP No. G578	136	
1 NAME OF REP	ORTING PERSON	
Artisan Pa	rtners Limited Partnership	
2 CHECK THE A (see Instru		(a) [_] (b) [_]
Not Applic		
3 SEC USE ONL		
4 CITIZENSHIP Delaware	OR PLACE OF ORGANIZATION	
	5 SOLE VOTING POWER	
NUMBER OF	None	
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	<pre>6 SHARED VOTING POWER 4,041,456</pre>	
	7 SOLE DISPOSITIVE POWER	
	None 8 SHARED DISPOSITIVE POWER	
	4,302,734	
9 AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
4,302,734		
10 CHECK BOX I (see Instru	F THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	[_]
Not Applic		
11 PERCENT OF	CLASS REPRESENTED BY AMOUNT IN ROW (9)	
7.4%		
12 TYPE OF REP (see Instru	ORTING PERSON Ictions)	
IA		

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CUSIP No. G5785G107 13G	
1 NAME OF REPORTING PERSON	-
Artisan Investments GP LLC	
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions) (a) [_ (b) [_	-]]
Not Applicable	-
3 SEC USE ONLY	
4 CITIZENSHIP OR PLACE OF ORGANIZATION	-
Delaware	-
5 SOLE VOTING POWER	
NUMBER OF None SHARES	
BENEFICIALLY 6 SHARED VOTING POWER OWNED BY	
EACH 4,041,456	
REPORTING	
None	
8 SHARED DISPOSITIVE POWER	
4,302,734	
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
4,302,734	
10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see Instructions)	-
Not Applicable	
11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	-
7.4%	
12 TYPE OF REPORTING PERSON (see Instructions)	-
нс	
Dage 2 of 19	-

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CUSIP NO. G57	856107 136
1 NAME OF RE	PORTING PERSON
	artners Holdings LP
	APPROPRIATE BOX IF A MEMBER OF A GROUP
Not Appli	cable
3 SEC USE ON	
4 CITIZENSHI	P OR PLACE OF ORGANIZATION
Delaware	
	5 SOLE VOTING POWER
NUMBER OF	None
SHARES BENEFICIALLY	
OWNED BY EACH REPORTING	4,041,456
PERSON	7 SOLE DISPOSITIVE POWER
WITH	None
	8 SHARED DISPOSITIVE POWER
	4,302,734
9 AGGREGATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
4,302,734	
10 CHECK BOX (see Instr	IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES [_]
Not Appli	cable
11 PERCENT OF	CLASS REPRESENTED BY AMOUNT IN ROW (9)
7.4%	
12 TYPE OF RE (see Instr	PORTING PERSON
HC	
	Page 4 of 18

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CUSIP No. G5785G107

CUSIP No. G57	85G107	136	
1 NAME OF RE	PORTING PERSON		
Artisan Pa	artners Asset Management Inc.		
2 CHECK THE / (see Instru	APPROPRIATE BOX IF A MEMBER OF uctions)	A GROUP (a) [_ (b) [_	
Not Appli			
3 SEC USE ON			
4 CITIZENSHI	P OR PLACE OF ORGANIZATION		
Delaware	5 SOLE VOTING POWER		
NUMBER OF	None		
SHARES BENEFICIALLY OWNED BY	6 SHARED VOTING POWER		-
EACH REPORTING			-
PERSON WITH	7 SOLE DISPOSITIVE POWER		
	None		-
	8 SHARED DISPOSITIVE POWER		
	4,302,734		
9 AGGREGATE	AMOUNT BENEFICIALLY OWNED BY E	ACH REPORTING PERSON	-
4,302,734			
10 CHECK BOX	IF THE AGGREGATE AMOUNT IN ROW		
Not Appli	cable		
11 PERCENT OF	CLASS REPRESENTED BY AMOUNT I	N ROW (9)	
7.4%			
12 TYPE OF REI (see Instru	PORTING PERSON		
НС			
	Daga F of 1	0	

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CUSIP NO. G57	856107 136
1 NAME OF RE	PORTING PERSON
Artisan I	nvestment Corporation
2 CHECK THE (see Instr	APPROPRIATE BOX IF A MEMBER OF A GROUP
Not Appli	cable
3 SEC USE ON	LY
4 CITIZENSHI	P OR PLACE OF ORGANIZATION
Wisconsin	
	5 SOLE VOTING POWER
NUMBER OF	None
SHARES BENEFICIALLY	
OWNED BY EACH	4,041,456
REPORTING PERSON	7 SOLE DISPOSITIVE POWER
WITH	None
	8 SHARED DISPOSITIVE POWER
	4,302,734
9 AGGREGATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
4,302,734	
10 CHECK BOX (see Instr	IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES [_]
Not Appli	cable
11 PERCENT OF	CLASS REPRESENTED BY AMOUNT IN ROW (9)
7.4%	
12 TYPE OF RE (see Instr	PORTING PERSON uctions)
HC	
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CUSIP No. G5785G107

CUSIP NO. G57	856107 136
1 NAME OF RE	PORTING PERSON
ZFIC, Inc	
2 CHECK THE (see Instr	APPROPRIATE BOX IF A MEMBER OF A GROUP
Not Appli	
3 SEC USE ON	LY
4 CITIZENSHI	P OR PLACE OF ORGANIZATION
Wisconsin	
	5 SOLE VOTING POWER
NUMBER OF	None
SHARES BENEFICIALLY	6 SHARED VOTING POWER
OWNED BY EACH	4,041,456
REPORTING PERSON WITH	7 SOLE DISPOSITIVE POWER
WILH	None
	8 SHARED DISPOSITIVE POWER
	4,302,734
9 AGGREGATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
4,302,734	
10 CHECK BOX (see Instr	IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES [_]
Not Appli	cable
11 PERCENT OF	CLASS REPRESENTED BY AMOUNT IN ROW (9)
7.4%	
12 TYPE OF RE (see Instr	PORTING PERSON
HC	
	Dage 7 of 19

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CUSIP No. G5785G107

CUSIP No. G5785G1	07 13G
1 NAME OF REPORT	ING PERSON
Andrew A. Zie	
(see Instructi	(b) [_]
Not Applicabl	e
3 SEC USE ONLY	
	PLACE OF ORGANIZATION
U.S.A.	
5	SOLE VOTING POWER
NUMBER OF SHARES	None
BENEFICIALLY 6	SHARED VOTING POWER
OWNED BY EACH	4,041,456
REPORTING PERSON 7 WITH	SOLE DISPOSITIVE POWER
	None
	SHARED DISPOSITIVE POWER
	4,302,734
9 AGGREGATE AMOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON
4,302,734	
10 CHECK BOX IF T (see Instructi	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ons) [_]
Not Applicabl	e
11 PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)
7.4%	
12 TYPE OF REPORT (see Instructi	
IN	
	Dame 9 of 19

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CUSIP No. G5785G107 13G
1 NAME OF REPORTING PERSON
Carlene M. Ziegler
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions) (a) [_] (b) [_]
Not Applicable
3 SEC USE ONLY
4 CITIZENSHIP OR PLACE OF ORGANIZATION
U.S.A.
5 SOLE VOTING POWER
NUMBER OF None SHARES
BENEFICIALLY 6 SHARED VOTING POWER OWNED BY
EACH 4,041,456
PERSON 7 SOLE DISPOSITIVE POWER
WITH None
8 SHARED DISPOSITIVE POWER
4,302,734
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
4,302,734
10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see Instructions) [_]
Not Applicable
11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
7.4%
12 TYPE OF REPORTING PERSON (see Instructions)
IN
Page 0 of 19

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Item 1(a) Name of Issuer:

Mallinckrodt PLC

Item 1(b) Address of Issuer's Principal Executive Offices: DAMASTOWN, MULHUDDART, DUBLIN 15, IRELAND

Item 2(a) Name of Person Filing:

Artisan Partners Limited Partnership ("APLP") Artisan Investments GP LLC ("Artisan Investments") Artisan Partners Holdings LP ("Artisan Holdings") Artisan Partners Asset Management Inc. ("APAM") Artisan Investment Corporation ("AIC") ZFIC, Inc. ("ZFIC") Andrew A. Ziegler Carlene M. Ziegler

Item 2(b) Address of Principal Business Office:

APLP, Artisan Investments, Artisan Holdings, APAM, AIC, ZFIC, Mr. Ziegler, and Ms. Ziegler are all located at:

875 East Wisconsin Avenue, Suite 800 Milwaukee, WI 53202

Item 2(c) Citizenship:

APLP is a Delaware limited partnership Artisan Investments is a Delaware limited liability company Artisan Holdings is a Delaware limited partnership APAM is a Delaware corporation AIC is a Wisconsin corporation ZFIC is a Wisconsin corporation Mr. Ziegler and Ms. Ziegler are U.S. citizens

Item 2(d) Title of Class of Securities:

Common Stock

Item 2(e) CUSIP Number:

G5785G107

Item 3 Type of Person:

(e) APLP is an investment adviser registered under section 203 of the Investment Advisers Act of 1940.

(g) Artisan Holdings is the sole limited partner of APLP and the sole member of Artisan Investments; Artisan Investments is the general partner of APLP; APAM is the general partner of Artisan Holdings; AIC is a control person of APAM; ZFIC is the sole stockholder of AIC; Mr. Ziegler and Ms. Ziegler are the principal stockholders of ZFIC.

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Item 4 Ownership (at December 31, 2013):

- (a) Amount owned "beneficially" within the meaning of rule 13d-3:4,302,734
- (b) Percent of class:

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7.4% (based on 58,002,372 shares outstanding as of December 6, 2013)
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- (c) Number of shares as to which such person has:
 - (i) sole power to vote or to direct the vote: None
 - (ii) shared power to vote or to direct the vote:

4,041,456

(iii) sole power to dispose or to direct the disposition of:

None

(iv) shared power to dispose or to direct the disposition
 of:

4,302,734

Item 5 Ownership of Five Percent or Less of a Class:

Not Applicable

Item 6 Ownership of More than Five Percent on Behalf of Another Person:

The shares reported herein have been acquired on behalf of discretionary clients of Artisan Partners. Persons other than Artisan Partners are entitled to receive all dividends from, and proceeds from the sale of, those shares. None of those persons, to the knowledge of Artisan Partners, Artisan Holdings, Artisan Partners Asset Management, Artisan Investments, Artisan Investment Corp., ZFIC, Mr. Ziegler or Ms. Ziegler, has an economic interest in more than 5% of the class.

Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person:

Not Applicable

Item 8 Identification and Classification of Members of the Group:

Not Applicable

Item 9 Notice of Dissolution of Group:

Not Applicable

Item 10 Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: January 30, 2014

ARTISAN PARTNERS ASSET MANAGEMENT INC, for itself and as the general partner of ARTISAN PARTNERS HOLDINGS LP

By: Gregory K. Ramirez*

ARTISAN INVESTMENTS GP LLC, for itself and as the general partner of ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Gregory K. Ramirez*

ARTISAN INVESTMENT CORPORATION

- By: Gregory K. Ramirez*
- ZFIC, INC.
- By: Gregory K. Ramirez*
- ANDREW A. ZIEGLER
- Andrew A. Ziegler*
- CARLENE M. ZIEGLER

Carlene M. Ziegler*

- *By: /s/ Gregory K. Ramirez Gregory K. Ramirez Assistant Treasurer of Artisan Partners Asset Management Inc. Vice President of Artisan Investments GP LLC Attorney-in-Fact for Artisan Investment Corporation Attorney-in-Fact for ZFIC, Inc. Attorney-in-Fact for Andrew A. Ziegler Attorney-in-Fact for Carlene M. Ziegler
- Page 12 of 18

Exhibit Index

- Exhibit 1 Joint Filing Agreement dated January 30, 2014 by and among Artisan Partners Limited Partnership, Artisan Investments GP LLC, Artisan Partners Holdings LP, Artisan Partners Asset Management Inc., Artisan Investment Corporation, ZFIC, Inc., Andrew A. Ziegler, and Carlene M. Ziegler
- Exhibit 2 Power of Attorney of Artisan Investment Corporation dated February 28, 2013
- Exhibit 3 Power of Attorney of ZFIC, Inc., dated August 31, 2012
- Exhibit 4 Power of Attorney of Andrew A. Ziegler dated August 31, 2012
- Exhibit 5 Power of Attorney of Carlene M. Ziegler dated August 31, 2012

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The undersigned hereby agree to the joint filing of the Schedule 13G to which this Agreement is attached.

Dated: January 30, 2014

ARTISAN PARTNERS ASSET MANAGEMENT INC, for itself and as the general partner of ARTISAN PARTNERS HOLDINGS LP By: Gregory K. Ramirez* -----ARTISAN INVESTMENTS GP LLC, for itself and as the general partner of ARTISAN PARTNERS LIMITED PARTNERSHIP By: Gregory K. Ramirez* -----ARTISAN INVESTMENT CORPORATION By: Gregory K. Ramirez* -----ZFIC, INC. By: Gregory K. Ramirez* -----ANDREW A. ZIEGLER Andrew A. Ziegler* -----CARLENE M. ZIEGLER Carlene M. Ziegler* -----*By: /s/ Gregory K. Ramirez -----Gregory K. Ramirez Assistant Treasurer of Artisan Partners Asset Management Inc. Vice President of Artisan Investments GP LLC Attorney-in-Fact for Artisan Investment Corporation Attorney-in-Fact for ZFIC, Inc. Attorney-in-Fact for Andrew A. Ziegler Attorney-in-Fact for Carlene M. Ziegler

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The undersigned, Artisan Investment Corporation, hereby appoints Charles J. Daley, Jr., Sarah A. Johnson, Gregory K. Ramirez and Rebecca Himmelspach, and each of them individually, its true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on its behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder, including but not limited to reports on Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact and agents.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 28/th/ day of February, 2013.

Artisan Investment Corporation

By: /s/ Andrew A. Ziegler Andrew A. Ziegler President

STATE OF WISCONSIN)) SS.

COUNTY OF MILWAUKEE)

I, Lisa Moran, a Notary Public in and for the County of Milwaukee, State of Wisconsin, DO HEREBY CERTIFY that Andrew A. Ziegler, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 28/th/ day of February, 2013.

/s/ Lisa Moran Notary Public

Page 15 of 18

The undersigned, ZFIC, Inc., hereby appoints Charles J. Daley, Jr., Sarah A. Johnson, Gregory K. Ramirez and Rebecca Himmelspach, and each of them individually, its true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on its behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder, including but not limited to reports on Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact and agents.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 31st day of August, 2012.

ZFIC, INC.

By: /s/ Andrew A. Ziegler Andrew A. Ziegler Vice President

STATE OF WISCONSIN)

COUNTY OF MILWAUKEE)

) SS.

I, Lisa Moran, a Notary Public in and for the County of Milwaukee, State of Wisconsin, DO HEREBY CERTIFY that Andrew A. Ziegler, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 31st day of August, 2012.

/s/ Lisa Moran Notary Public

Page 16 of 18

The undersigned, Andrew A. Ziegler, hereby appoints Charles J. Daley, Jr., Sarah A. Johnson, Gregory K. Ramirez and Rebecca Himmelspach, and each of them individually, his true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on his behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder, including but not limited to reports on Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact and agents.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 31st day of August, 2012.

/s/ Andrew A. Ziegler Andrew A. Ziegler

STATE OF WISCONSIN)

) SS. COUNTY OF MILWAUKEE)

I, Lisa Moran, a Notary Public in and for the County of Milwaukee, State of Wisconsin, DO HEREBY CERTIFY that Andrew A. Ziegler, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 31st day of August, 2012.

/s/ Lisa Moran Notary Public

Page 17 of 18

The undersigned, Carlene M. Ziegler, hereby appoints Charles J. Daley, Jr., Sarah A. Johnson, Gregory K. Ramirez and Rebecca Himmelspach, and each of them individually, her true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on her behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder, including but not limited to reports on Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact and agents.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 31st day of August, 2012.

/s/ Carlene M. Ziegler Carlene M. Ziegler

STATE OF WISCONSIN)

) SS. COUNTY OF MILWAUKEE)

I, Lisa Moran, a Notary Public in and for the County of Milwaukee, State of Wisconsin, DO HEREBY CERTIFY that Carlene M. Ziegler, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that she signed and delivered the said instrument as her own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 31st day of August, 2012.

/s/ Lisa Moran Notary Public

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