NATUS MEDICAL INC Form SC 13D/A May 04, 2011

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

SCHEDULE 13D Under the Securities Exchange Act of 1934 (Amendment No. 17)

NATUS MEDICAL INCORPORATED (BABY) (Name of Issuer)

Common Stock (Title of Class of Securities)

639050103 (CUSIP Number)

David Nierenberg The D3 Family Funds 19605 NE 8th Street Camas, WA 98607 (360) 604-8600

With a copy to:

Christopher P. Davis Kleinberg, Kaplan, Wolff & Cohen, P.C. 551 Fifth Avenue New York, NY 10176 (212) 986-6000

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

May 2, 2011 (Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D and is filing this schedule because of §§ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box []TM.

1

NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only) The D3 Family Fund, L.P. 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) [X] (b) [] 3 SEC USE ONLY 4 SOURCE OF FUNDS (See Instructions) WC 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) [] 6 CITIZENSHIP OR PLACE OF ORGANIZATION Washington **NUMBER OF SHARES** 7 **SOLE VOTING POWER BENEFICIALLY** SHARED VOTING POWER **OWNED BY** 8 **EACH** 207,775 common shares (0.7%) **REPORTING PERSON** 9 SOLE DISPOSITIVE POWER WITH 0 SHARED DISPOSITIVE POWER 10 207,775 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING **PERSON** For the reporting person listed on this page, 207,775; for all reporting persons as a group, 1,301,895 shares (4.5%) 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 13 For the reporting person listed on this page, 0.7%; for all reporting persons as a group 4.5% 14 TYPE OF REPORTING PERSON (See Instructions) PN

1 NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only) The D3 Family Bulldog Fund, L.P. 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) [X] (b) [] 3 SEC USE ONLY 4 SOURCE OF FUNDS (See Instructions) WC 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) [] CITIZENSHIP OR PLACE OF ORGANIZATION 6 Washington NUMBER OF SHARES **SOLE VOTING POWER** 7 **BENEFICIALLY OWNED BY** 8 SHARED VOTING POWER **EACH** 832,340 common shares (2.9%) REPORTING **PERSON** 9 SOLE DISPOSITIVE POWER WITH 10 SHARED DISPOSITIVE POWER 832,340 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING **PERSON** For the reporting person listed on this page, 832,340; for all reporting persons as a group, 1,301,895 shares (4.5%) 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) For the reporting person listed on this page, 2.9%; for all reporting persons as a group 4.5% 14 TYPE OF REPORTING PERSON (See Instructions)

PN

1 NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only) The D3 Family Canadian Fund, L.P. 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) [X] (b) [] 3 SEC USE ONLY 4 SOURCE OF FUNDS (See Instructions) WC 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) [] 6 CITIZENSHIP OR PLACE OF ORGANIZATION Washington NUMBER OF SHARES 7 **SOLE VOTING POWER BENEFICIALLY** OWNED BY 8 SHARED VOTING POWER **EACH** 97,940 common shares (0.3%) REPORTING **PERSON** 9 SOLE DISPOSITIVE POWER WITH 0 SHARED DISPOSITIVE POWER 10 97,940 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING 11 **PERSON** For the reporting person listed on this page, 97,940; for all reporting persons as a group, 1,301,895 shares (4.5%) 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) For the reporting person listed on this page, 0.3%; for all reporting persons as a group 4.5%

TYPE OF REPORTING PERSON (See Instructions)

14

PN

1 NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only) The DIII Offshore Fund, L.P. 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) [X] (b) [] 3 SEC USE ONLY 4 SOURCE OF FUNDS (See Instructions) WC 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) [] 6 CITIZENSHIP OR PLACE OF ORGANIZATION Bahamas NUMBER OF SHARES 7 **SOLE VOTING POWER BENEFICIALLY** OWNED BY 8 SHARED VOTING POWER **EACH** 163,840 common shares (0.6%) REPORTING **PERSON** 9 SOLE DISPOSITIVE POWER WITH 0 SHARED DISPOSITIVE POWER 10 163,840 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING 11 **PERSON** For the reporting person listed on this page, 163,840; for all reporting persons as a group, 1,301,895 shares (4.5%) 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) For the reporting person listed on this page, 0.6%; for all reporting persons as a group 4.5% 14 TYPE OF REPORTING PERSON (See Instructions) PN

1

NAME OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only) Nierenberg Investment Management Company, Inc. 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) [X] (b) [] 3 SEC USE ONLY 4 SOURCE OF FUNDS (See Instructions) AF CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED 5 PURSUANT TO ITEMS 2(d) or 2(e) [] 6 CITIZENSHIP OR PLACE OF ORGANIZATION Washington **NUMBER OF SHARES** 7 **SOLE VOTING POWER BENEFICIALLY** SHARED VOTING POWER **OWNED BY** 8 **EACH** 1,301,895 shares (4.5%) **REPORTING PERSON** 9 SOLE DISPOSITIVE POWER WITH 0 10 SHARED DISPOSITIVE POWER 1,301,895 shares 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING **PERSON** For the reporting person listed on this page, 1,301,895; for all reporting persons as a group, 1,301,895 shares (4.5%) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN 12 SHARES (See Instructions) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) For the reporting person listed on this page, 4.5%; for all reporting persons as a group 4.5% 14 TYPE OF REPORTING PERSON (See Instructions) CO

1 NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only) Nierenberg Investment Management Offshore, Inc. 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) [X] (b) [] 3 SEC USE ONLY 4 SOURCE OF FUNDS (See Instructions) AF 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) [] 6 CITIZENSHIP OR PLACE OF ORGANIZATION Bahamas NUMBER OF SHARES 7 **SOLE VOTING POWER** BENEFICIALLY OWNED BY 8 SHARED VOTING POWER **EACH** 163,840 common shares (0.6%) REPORTING **PERSON** 9 SOLE DISPOSITIVE POWER WITH 0 SHARED DISPOSITIVE POWER 10 163,840 common shares AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING 11 **PERSON** For the reporting person listed on this page, 163,840; for all reporting persons as a group, 1,301,895 shares (4.5%) 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions) 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) For the reporting person listed on this page, 0.6%; for all reporting persons as a group 4.5%

TYPE OF REPORTING PERSON (See Instructions)

14

CO

1 NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only) David Nierenberg 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) [X] (b) [] 3 SEC USE ONLY 4 SOURCE OF FUNDS (See Instructions) AF 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) [] 6 CITIZENSHIP OR PLACE OF ORGANIZATION United States of America NUMBER OF SHARES 7 **SOLE VOTING POWER BENEFICIALLY** SHARED VOTING POWER **OWNED BY** 8 **EACH** 1,301,895 common shares (4.5%) **REPORTING PERSON** 9 SOLE DISPOSITIVE POWER WITH 0 10 SHARED DISPOSITIVE POWER 1,301,895 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING **PERSON** For the reporting person listed on this page, 1,301,895; for all reporting persons as a group, 1,301,895 shares (4.5%) 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 13 For the reporting person listed on this page, 4.5%; for all reporting persons as a group 4.5% 14 TYPE OF REPORTING PERSON (See Instructions) IN

This Amendment No. 17 to Schedule 13D (this "Amendment") amends the below-indicated Items from the Schedule 13D with respect to the shares of common stock (the "Common Stock") of Natus Medical Incorporated (the "Issuer" or "BABY") previously filed by or on behalf of the Reporting Persons (as defined below), as previously amended (collectively the "Schedule 13D"), by supplementing such Items with the information below.

The names of the persons filing this Amendment (collectively, the "Reporting Persons") are: The D3 Family Fund, L.P. (the "Family Fund"), The D3 Family Bulldog Fund, L.P. (the "Bulldog Fund"), The D3 Family Canadian Fund, L.P. (the "Canadian Fund"), The DIII Offshore Fund, L.P. (the "Offshore Fund"), Nierenberg Investment Management Company, Inc. ("NIMCO"), Nierenberg Investment Management Offshore, Inc. ("NIMO") and David Nierenberg ("Mr. Nierenberg").

Item 5. Interest in Securities of the Issuer.

- (a) The Reporting Persons, in the aggregate, beneficially own 1,301,895 shares of Common Stock, constituting approximately 4.5% of the outstanding shares.
- (b) The Family Fund, NIMCO and Mr. Nierenberg have shared power (i) to vote or direct the vote of, and (ii) to dispose or direct the disposition of, the 207,775 shares of Common Stock held by the Family Fund.

The Bulldog Fund, NIMCO and Mr. Nierenberg have shared power (i) to vote or direct the vote of, and (ii) to dispose or direct the disposition of, the 832,340 shares of Common Stock held by the Bulldog Fund.

The Canadian Fund, NIMCO and Mr. Nierenberg have shared power (i) to vote or direct the vote of, and (ii) to dispose or direct the disposition of, the 97,940 shares of Common Stock held by the Canadian Fund.

The Offshore Fund, NIMO, NIMCO and Mr. Nierenberg have shared power (i) to vote or direct the vote of, and (ii) to dispose or direct the disposition of, the 163,840 shares of Common Stock held by the Offshore Fund.

(c) Since our last Amendment to Schedule 13D the following sales of shares of Common Stock were made by the Reporting Persons named below in open market transactions:

Fund	Trade Date	QTY	Price
D3 Family Bulldog Fund, LP	04/18/2011	400	16.72
D3 Family Fund, LP	04/20/2011	8,200	16.77
D3 Family Bulldog Fund, LP	04/20/2011	32,385	16.77
DIII Offshore Fund, LP	04/20/2011	6,100	16.77
D3 Family Fund, LP	04/21/2011	3,626	16.77
D3 Family Bulldog Fund, LP	04/21/2011	13,981	16.77
D3 Family Canadian Fund, LP	04/21/2011	206	16.77
DIII Offshore Fund, LP	04/21/2011	2,345	16.77
D3 Family Bulldog Fund, LP	04/25/2011	328	16.70
D3 Family Fund, LP	04/26/2011	5,660	16.69
D3 Family Bulldog Fund, LP	04/26/2011	22,005	16.69
D3 Family Canadian Fund, LP	04/26/2011	2,535	16.69
DIII Offshore Fund, LP	04/26/2011	4,239	16.69
D3 Family Fund, LP	04/27/2011	6,868	16.85
D3 Family Bulldog Fund, LP	04/27/2011	27,202	16.85
D3 Family Canadian Fund, LP	04/27/2011	3,112	16.85
DIII Offshore Fund, LP	04/27/2011	5,059	16.85
D3 Family Fund, LP	04/28/2011	6,390	17.10
D3 Family Bulldog Fund, LP	04/28/2011	25,480	17.10
D3 Family Canadian Fund, LP	04/28/2011	3,140	17.10
DIII Offshore Fund, LP	04/28/2011	4,270	17.10
D3 Family Fund, LP	04/29/2011	8,050	17.03
D3 Family Bulldog Fund, LP	04/29/2011	32,000	17.03
D3 Family Canadian Fund, LP	04/29/2011	3,790	17.03
DIII Offshore Fund, LP	04/29/2011	6,176	17.03
D3 Family Fund, LP	05/02/2011	12,355	17.18
D3 Family Bulldog Fund, LP	05/02/2011	49,830	17.18
D3 Family Canadian Fund, LP	05/02/2011	6,025	17.18
DIII Offshore Fund, LP	05/02/2011	9,672	17.18
D3 Family Fund, LP	05/03/2011	27,597	17.22
D3 Family Bulldog Fund, LP	05/03/2011	111,075	17.22
D3 Family Canadian Fund, LP	05/03/2011	13,183	17.22
DIII Offshore Fund, LP	05/03/2011	20,263	17.22

⁽e). The Reporting Persons ceased to be beneficial owners of more than five percent of the Common Stock on May 3, 2011.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, each of the undersigned certifies that the information set forth in the Statement is true, complete and correct.

L.P., and D3 Family Canadian Fund, L.P.	D3 Family Fund, L.P., D3 Family Bulldog Fund,		
Inc.	By: Nierenberg Investment Management Company		
May 4, 2011	Its: General Partner By: /s/ David Nierenberg		
	David Nierenberg, President		
	DIII Offshore Fund, L.P.		
Inc.	By: Nierenberg Investment Management Offshore,		
May 4, 2011	Its: General Partner By: /s/ David Nierenberg		
	David Nierenberg, President		
	Nierenberg Investment Management Company, Inc.		
May 4, 2011	By: /s/ David Nierenberg		
	David Nierenberg, President		
	Nierenberg Investment Management Offshore, Inc.		
May 4, 2011	By: /s/ David Nierenberg		
	David Nierenberg, President		
May 4, 2011	/s/ David Nierenberg		
	David Nierenberg		