(Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005)	PATENTS	S ONLY  U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office
Tab settings		
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.		
Name of conveying party(ies):     Hughes Aircraft Company     a corporation of the State of Delaware		Name and address of receiving party(ies)     Name: _HE Holdings, Inc., a Delaware Corp.  Internal Address: _Patents and Licensing
Additional name(s) of conveying party(les) at	ttached?Yes 🗸 No	Building CO/CO1
3. Nature of conveyance:		
Assignment  Security Agreement	☐ Merger ☑ Change of Name	Street Address: 7200 Hughes Terrace
Other		
		City: Los Angeles State: CA Zip: 90045
12/17/1997 Execution Date:		Additional name(s) & address(es) attached? Yes 🗸 No
	Additional numbers at	
Name and address of party to who concerning document should be reason.      Name: Raytheon Company		6. Total number of applications and patents involved: 117.  7. Total fee (37 CFR 3.41)\$40.00
1	Administration	Enclosed
P.O. Box 902 (EO/EO4/N119)	<del></del>	Authorized to be charged to deposit account
Street Address:2000 E. El Segu	undo Boulevard	8. Deposit account number: 50-2077
City: El Segundo State: CA Zip: 90245-0902		
DO NOT USE THIS SPACE		
9. Signature.  August 26, 2004		
John E. Gunther, 43,649  Name of Person Signing	phor of posses influence	Signature Date er sheet, attachments, and documents:

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

> PATENT REEL: 015223 FRAME: 0544

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PAGE

## State of Delaware Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF ELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT OPY OF THE CERTIFICATE OF AMENDMENT OF "HUGHES AIRCRAFT

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
HUGHES AIRCRAFT COMPANY

Hughes Aircraft Company, a corporation organized and existing under and by e of the General Corporation Law of the State of Delaware, does hereby certify:

FIRST: That the sole stockholder of the Corporation did consent to and adopt following resolution setting forth a proposed amendment to the Certificate of poration of the Corporation:

RESOLVED, That Article 1 of the Certificate of Incorporation of this corporation is hereby amended to read as follows:

"1. The name of the corporation is HE Holdings, Inc."

SECOND: That this amendment was duly adopted in accordance with the sions of Section 242 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said corporation has caused this certificate to be ad by its Chairman of the Board and attested by its Secretary this day of imber, 1995.

HUGHES AIRCRAFT COMPANY

M. T. Smith

Chairman of the Board

R. M. Hall Secretary

:t:

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RICHLARDS LAYTON & FINGER . STATE OF DELAWARE Ø 002 SECRETARY OF STATE DIVISION OF CORPORATIONS FILED 0J:70 PH 12/17/1997 971434564 - 0472015

CERTIFICATE OF MERGER

OF

RAYTHEON COMPANY

WITH AND INTO

HE HOLDINGS, INC.

Under Section 251

of

the Delaware General Corporation Law

THE UNDERSIGNED, HE Holdings, Inc. ("Defense") and aytheon Company ("Raytheon"), in connection with the merger f Raytheon with and into Defense (the "Merger"), hereby

FIRST: The name and the state of incorporation of each the constituent corporations are:

Name

State of Incomporation

E Foldings, Inc.

Delaware

aytheon . Company

Delaware

SECOND: An agreement and plan of merger relating to he Merger (the "Agreement of Merger") has been approved, dopted, certified, executed and acknowledged by each of the onstituent corporations in accordance with Section 251 of he Delaware General Corporation Law.

THIRD: The name of the surviving corporation of the arger is HE Holdings, Inc.

FOURTH: The Certificate of Incorporation of the urviving corporation shall be the Amended and Restated extificate of Incorporation of HE Holdings, Inc. as filed ith the Secretary of State of Delaware on December 12, 997; provided, however, that Article I thereof shall be nended and restated as of the effectiveness of the Merger

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#### 'Article I

The name of the corporation (which is hersafter referred to as the "Corporation") is Eaytheon Company.

FIFTH: The marger shall be effective at and as of 5:00 p.m. (Basesrn Time) on Decamber 17, 1997.

SIXTH: The executed Agreement of Margar is on file the principal place of husiness of the surviving corporation at 141 Spring Street, Lexington, Massachusetts 02173.

BRVENTH: A copy of the Agreement of Merger will be furnished by the surviving corporation, or request and without cost, to any stockholder of either constituent

IN MITNESS WHEREOF, the undermigrad corporations have duly executed this Certificate this 17th day of December 1997.

RAYTHEON COMPANY

Hame: THIMAS D. HYde Ticle: VICE PRESOENT AND CENERAL

HE KOLDINGS, INC.

Name: J.L. Williamson

Title: Asust. Soccorney

2 14:59 FAX 3108472818

RAYTHEON - WEST P & L

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## State of Delaware

PAGE 1

#### Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"HUGHES AIRCRAFT COMPANY", A DELAWARE CORPORATION,
WITH AND INTO "HE HOLDINGS, INC." UNDER THE NAME OF "HE
HOLDINGS, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE
LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS
OFFICE THE SIXTEENTH DAY OF DECEMBER, A.D. 1997, AT 12 O'CLOCK
P.M.

FAX COPY RECEIVED FEB 1 4 2002

TECHNOLOGY CENTER 2800

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Edward J. Freel, Secretary of State 9413672

AUTHENTICATION:

DATE

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PATENT REEL: 015223 FRAME: 0549 14:59 FAX 3106472616 RAYTHEON - WEST P & L

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State of Delawars

Office of the Secretary of Stock

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF ELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT OPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"RAYTHEON COMPANY", A DELAWARE CORPORATION,

WITH AND INTO "HE HOLDINGS, INC." UNDER THE NAME OF VAYTHEON COMPANY", A CORPORATION ORGANIZED AND EXISTING UNDER IE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED, IN THIS FICE THE SEVENTEENTH DAY OF DECEMBER, A.D. 1997, AT 3:20 CLOCK P.M.

AUTHERTICATION:

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RICHARDS LAYTON & FINGER

STATE OF DELAWARE 000 SECRETARY OF STATE DIVISION OF CORPORATIONS FILED 12:00 PM 12/14/1991 971430861 - 0472015

#### CERTIFICATE OF OWNERSHIP AND MERGER

OF

HUGHES AIRCRAFT COMPANY
(a Delaware corporation)

INTO

HE HOLDINGS, INC. (a Delaware corporation)

#### (UNDER SECTION 253 OF THE DELAWARE GENERAL CORPORATE LAW)

It is hereby certified that:

- 1. HE Holdings, Inc. (the "Corporation") is a corporation of the State of
- 2. The Corporation is the owner of all of the outstanding shares of capital stock of Hughes Aircraft Company, a Delaware corporation (the "Subsidiary").
- 3. The Corporation hereby agrees to merge the Subsidiary into the Corporation (the "Merger").
- 4. The following are resolutions adopted by the Board of Directors of the Corporation on December 7, 1997:

"Approval of Merger of Hughes Alectast Company with and into the Corporation

RESOLVED, that the Hughes Aircraft Company, a Delaware corporation and wholly-owned subsidiary of the Corporation (the "Subsidiary"), be merged with and into the Corporation (the "Sub Merger") pursuant to the provisions of the General Corporation Law of the State of Delaware (the "DGCL"); and

RESOLVED, that the Sub Merger shall be effective on the date (the "Effective Date") of the filing of the Certificate of Ownership and Merger with the Secretary of State of the State of Delaware, substantially in the form attached hereto as Annex 5; and

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RESOLVED, that pursuant to Section 259 of the DGCL, upon the Effective Date, the separate existence of the Subsidiary shall cease, and the Corporation shall continue its existence as the surviving corporation; and

RESOLVED, that the appropriate officers of the Corporation be, and each of them hereby is, authorized, empowered and directed, in the name and on behalf of the Corporation, to execute and cause to be filed a Certificate of Ownership and Merger with respect to the Sub Merger with the Secretary of State of the State of Delaware."

5. The Merger shall be effective on the date of the filing of this Certificate of Ownership and Merger with the Secretary of State of the State of Delaware.

IN WITNESS WHEREOF, the undersigned, for the purpose of effectiviting the Merger, pursuant to the DGCL, under penalties of perjury does hereby declare and certify that this is the act and deed of the Corporation and the facts stated herein are true and accordingly has hereunto signed this Certificate of Ownership and Merger as of the 16th day of December 1997.

HE HOLDINGS, INC.

Frame: J. L. Williamson

Title: ASSISTANT SACKSTON

# State of Delaware Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"RAYTHEON COMPANY", A DELAWARE CORPORATION,

WITH AND INTO "HE HOLDINGS, INC." UNDER THE NAME OF "RAYTHEON COMPANY", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE SEVENTEENTH DAY OF DECEMBER, A.D. 1997, AT 3:20 D'CLOCK P.M.

Edward J. Freel, Secretary of State 9259021

AUTHENTICATION:

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