

EXHIBIT NO. 4



FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

1 - Mr. Malone
1 - Mr. Brager

To: SAC, Charlotte (70A-CE-3668)

Date: December 31, 1990

FBI File No. 70-51728
00319036 S RQ
Lab No. 01022018 S RQ TN
01025034 S RQ
01029014 S RQ TN

Reference: Evidences received 3/19/90 and 12/10/90 and communications dated 10/19/90, 10/24/90, 11/9/90 and 12/12/90 and communication dated 10/26/90 from SAC, Tampa
01116013 S RQ
01211003 S RQ
01213054 S RQ XO

Your No.

Re: JEFFREY R. MACDONALD - SUSPECT;
COLETTE K. MACDONALD, ET AL. -
VICTIMS;
CGR - MURDER

OO: Charlotte

Specimens received: March 19, 1990

Specimens personally delivered by SA Raymond Madden on March 19, 1990, under cover of evidence received March 19, 1990 (00319036 S RQ):

RESUBMITTED FROM PC-L2082 JV:

One empty slide mailer originally containing Q89 slide

One empty vial originally containing Q89 debris

One cardboard Q89 pillbox containing two pieces of thread

RESUBMITTED FROM 90103084 S RR:

One plastic vial originally containing debris from Q100

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MPM:ams (5)
MAIL ROOM

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Exhibit No. 4

Slide mailers containing slides from K28 through K42

Slide mailers containing slides from Q80, Q81, Q82, Q83, Q87, Q88, Q89, Q92, Q100, Q105, Q124, Q125

Cardboard box containing folded paper containing known samples

RESUBMITTED FROM PC-F7279 JV:

One torn pocket marked Q13

One torn blue pajama top marked Q12

Specimens received October 22, 1990, under cover of communication dated October 19, 1990 (01022018 S RQ TN):

Q131A Clear handled hairbrush (K) (384-71)

Q132 Blue handled hairbrush (J) (384-71)

RESUBMITTED FROM FBI LABORATORY NUMBER PC-L2082 JV 12:

Pink handled Q17 hairbrush from dresser in master bedroom and hair removed from hairbrush (E-8)

Vial containing Q18 hairs from clothing found in south bedroom (70-70)

Vial containing Q19 hairs from clothing found in south bedroom (70-70)

Vial containing Q20 hairs from clothing found in south bedroom (70-70)

Vial containing Q21 hairs from clothing found in south bedroom (70-70)

Glass microscope slide containing debris from Q40 (E-324)

Glass microscope slide containing debris from Q41 (E-324)

Glass microscope slide containing debris from Q42 (E-324)

Glass microscope slide containing debris from item Q43 (J)

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Glass microscope slide containing debris from item Q44 (J)
Glass microscope slide containing debris from item Q45 (K)
Glass microscope slide containing debris from item Q46 (K)
Glass microscope slide containing debris from item Q47 (K)
Glass microscope slide containing debris from item Q48 (K)
Glass microscope slide containing debris from item Q49 (K)
Glass microscope slide containing debris from item Q50
(E-35)
Glass microscope slide containing debris from item Q51
(E-35)
Glass microscope slide containing debris from item Q52
(E-35)
Glass microscope slide containing debris from Q53
(E-321)
Glass microscope slide containing debris from Q54
(E-321)
Glass microscope slide containing debris from Q55
(E-35)
Glass microscope slide containing debris from Q56
(E-35)
Glass microscope slide containing debris from Q57
(E-35)
Glass microscope slide containing debris from Q58
(E-35)
Glass microscope slide containing debris from Q59
(K)
Glass microscope slide containing debris from Q60
(K)
Glass microscope slide containing debris from Q61
(K)

Glass microscope slide containing debris from Q62
(K)

Glass microscope slide containing debris from Q63
(K)

Glass microscope slide containing debris from Q64
(J)

Glass microscope slide containing debris from Q65
(J)

Glass microscope slide containing debris from Q66
(J)

Glass microscope slide containing debris from Q67
(E-325)

Glass microscope slide containing debris from Q68
(E-325)

Glass microscope slide containing debris from Q69
(E-325)

Glass microscope slide containing debris from Q70
(E-325)

Glass microscope slide containing debris from Q71
(E-325)

Glass microscope slide containing debris from Q72
(E-325)

Glass microscope slide containing debris from Q73
(E-325)

Glass microscope slide containing debris from Q74
(E-325)

Glass microscope slide containing debris from Q75
(K)

Glass microscope slide containing debris from Q76
(E-35)

Glass microscope slide containing debris from Q77
(E-324)

Plastic vial containing Q78 debris from area of left hand and arm of body in master bedroom (E-301)

2 small cardboard pillboxes containing debris from Q78 (E-301)

3 glass microscope slides containing debris from Q78 (E-301)

Plastic vial containing Q79 debris from area of trunk and legs of body in master bedroom (E-303)

3 small cardboard pillboxes containing debris from Q79 (E-303)

2 glass microscope slides containing debris from Q79 (E-303)

Plastic vial containing Q84 debris from near body in master bedroom (23)

Ziplock bag containing debris from Q84 (23)

1 small cardboard pillbox containing debris from Q84 (23)

2 glass microscope slides containing debris from Q84 (23)

Plastic vial containing Q85 debris from sheet in master bedroom (19)

1 small cardboard pillbox containing debris from Q85 (19)

2 glass microscope slides containing debris from Q85 (19)

1 plastic vial containing piece of fabric from item Q96 (D-229)

1 plastic vial containing debris from item Q96 (D-229)

1 small cardboard pillbox containing debris from Q96 (D-229)

4 glass microscope slides containing debris from Q96 (D-229)

1 plastic vial containing Q101 debris from area of rug near foot board in master bedroom (E-302)

2 small cardboard pillboxes containing debris from Q101 (E-302)

2 glass microscope slides containing debris from Q101 (E-302)

RESUBMITTED FROM FBI LABORATORY NUMBER 90103084 S RR 12:

K36 1 navy blue pullover turtleneck jersey from master bedroom

K37 1 navy blue stretch pants from master bedroom

K44 1 dark blue overall pants from master bedroom

K45 Black men's trousers from master bedroom

K46 Doll's head

K30 Multicolored throw rug from master bedroom (D-207)

K30a Debris from K30 (D-207)

ALSO SUBMITTED:

Q116 - Metal film canister

Plastic vial containing piece of green fabric (56NB)

10 plastic vials containing debris

9 glass microscope slides containing red fibers

9 empty plastic vials originally containing hair samples from JEFFREY MACDONALD

13 loose glass microscope slides

Specimens received October 25, 1990, under cover of communication dated October 24, 1990 (01025034 S RQ):

RESUBMITTED FROM FBI LABORATORY NUMBER 90103084 S RR:

Glass microscope slides containing debris from Q4, Q5, Q8,

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Q9, Q111, Q112 and Q126

RESUBMITTED FROM FBI LABORATORY NUMBER PC-L2082 JV:

- 2 glass microscope slides containing debris from Q93
- 1 small plastic vial containing debris from Q93
- 1 glass microscope slide containing debris from Q98
- 1 small plastic vial containing debris from Q98
- 1 small cardboard pillbox containing debris from Q98

RESUBMITTED FROM FBI LABORATORY NUMBER PC-M1133 JV:

- 2 glass microscope slides containing debris from Q121
- 1 rubber stoppered test tube containing debris from Q121
- 1 plastic pillbox containing debris from Q121
- 1 glass microscope slide containing debris from Q122
- 1 rubber stoppered test tube containing debris from Q122
- 1 plastic pillbox containing debris from Q122
- 1 glass microscope slide containing debris from Q123
- 1 rubber stoppered test tube containing debris from Q123
- 1 plastic pillbox containing debris from Q123

Specimen received October 29, 1990, under cover of communication dated October 26, 1990 (01029014 S RQ TN):

K47 Blonde braided fall

Specimens received November 16, 1990, under cover of communication dated November 9, 1990 (01116013 S RQ):

Q133 White handled hairbrush found under right arm of
 COLETTE MACDONALD (EX 35)

RESUBMITTED FROM FBI LABORATORY NUMBER PC-L2082 JV:

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6 glass microscope slides containing debris from Q86
1 small cardboard pillbox containing debris from Q86
1 small plastic vial containing debris from Q86

RESUBMITTED FROM FBI LABORATORY NUMBER PC-L2873 JV:

1 glass microscope slide containing debris from Q117
1 glass microscope slide containing debris from Q116
1 glass microscope slide containing debris from Q119

RESUBMITTED FROM FBI LABORATORY NUMBER PC-L1913 JV:

K1 8 glass microscope slides containing head hair sample
from COLETTE MACDONALD
1 cardboard pillbox
K1 Head hair sample from COLETTE MACDONALD
K2 5 glass microscope slides containing head hair sample
from KIMBERLY MACDONALD
1 cardboard pillbox
K2 Head hair sample from KIMBERLY MACDONALD
K3 5 glass microscope slides containing head hair sample
from KRISTEN MACDONALD
1 cardboard pillbox
K3 Head hair sample from KRISTEN MACDONALD

RESUBMITTED FROM FBI LABORATORY NUMBER 90103084 S RR IZ:

K40 Multi-colored afghan

Specimens personally delivered by Special Agent Michael P.
Malone on December 10, 1990 (01211003 S RQ):

K48 Blond hair-like fiber from "Pollyanna" doll (1)
K49 Blond hair-like fiber from "Dancerina" doll (2)
K50 Blond hair sample from "Colette MacDonald's" doll

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Specimens received December 13, 1990, under cover of communication dated December 12, 1990 (01213054 S RQ XO):

K51 Orange stuffed toy dog

ALSO SUBMITTED:

8 millimeter film

Result of examination:

Specimen Q131A (CID #K and E-323) consists of a clear handled hairbrush. Two light blond saran fiber fragments were removed from this item and have been mounted on a glass microscope slide. One light blond saran fiber (Q49) and two blond saran fibers (Q46) were previously removed from specimen Q131A. These fibers are consistent with the type of fibers normally used in the production of doll hair and are not consistent with the type of fibers used in the production of wigs. These fibers are like a known sample of saran doll hair from the FBI Laboratory reference collection and are not like any of the known wig fiber samples currently in the FBI Laboratory reference collection of fibers. The source of these fibers is not known at this time. One grey delustered modacrylic fiber (Q48) was also previously removed from Q131A. This fiber is consistent with the type of fiber normally used in the production of hair goods and exhibits the same microscopic and optical properties as the grey delustered modacrylic fibers found in the composition of specimen K47 (COLETTE's fall). Accordingly, this Q48 modacrylic fiber is consistent with having originated from the K47 fall. No other hairs and/or fibers of apparent significance were found on specimen Q131A.

Specimen Q132 (CID #J and E-322) consists of a blue handled hairbrush. One grey delustered modacrylic fiber was removed from this item. This fiber exhibits the same microscopic and optical properties as the grey delustered modacrylic fibers found in the composition of specimen K47 (COLETTE's fall). Accordingly, this fiber is consistent with having originated from the K47 fall. Two black polyvinyl chloride (PVC) fibers (Q43 and Q44) were previously removed from specimen Q132 and were mounted on glass microscope slides. These fibers are consistent with the type of fibers which were once used in the production of wigs. The source of these fibers is unknown at this time. No other hairs and/or fibers of apparent significance were found on specimen Q132.

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Specimen Q79 (CID #E-303) consists of debris from underneath the body of Colette MacDonald. One brown pubic hair of Caucasian origin, which does not appear to have been forcibly removed, was found in Q79. This hair was previously mounted on a glass microscopic slide. Also found in specimen Q79 were a brown cotton thread and a bluish-black rayon/acrylic yarn. The source of these items is unknown at this time. No other hairs and/or fibers of apparent significance were found in specimen Q79.

Specimen Q87 (CID #52NB) consists of debris removed from the bedspread in Kristen MacDonald's bedroom. One black dog hair and two brown and white animal hairs (no roots) were found in Q87. No hairs of human origin were found in specimen Q87.

Specimen Q88 (CID #E-209) consists of debris removed from the right biceps area of Colette MacDonald. One bluish-black wool fiber was found in specimen Q88. The source of this fiber is unknown at this time. One white wool fiber was also found in specimen Q88. This fiber exhibits the same microscopic characteristics as the white wool fibers composing the specimen K33 rug, and accordingly, this fiber is consistent with having originated from the specimen K33 rug. No other hairs and/or fibers of significance were found in specimen Q88.

Specimen Q89 (CID #E-205) consists of debris removed from a piece of wood. This debris was previously mounted on glass microscope slides. One bluish-black wool fiber and one green wool fiber were found in specimen Q89. The source of these fibers is unknown at this time. White wool fibers were also found in specimen Q89. These fibers exhibit the same microscopic characteristics as the white wool fibers found in the composition of the specimen K33 rug, and accordingly, are consistent with having originated from the K33 rug. White animal hairs (no roots) were also found in specimen Q89. No other hairs and/or fibers of apparent significance were found in specimen Q89.

Specimen Q93 (CID #E-124) consists of debris from the quilt in Kimberly MacDonald's bedroom. One brown limb hair of Caucasian origin was found in specimen Q93. This hair does not possess sufficient characteristics to be of value for significant comparison purposes. No other hairs and/or fibers of apparent significance were found in specimen Q93.

Specimen Q100 (CID #E-3) consists of debris from the mouth area of Colette MacDonald. Two dark purple wool fibers were found in specimen Q100. The source of these fibers is

unknown at this time. A blue polyester cotton yarn was also found in specimen Q100. This yarn exhibits the same microscopic and optical properties as the yarns composing the specimen Q12 pajama top, and accordingly, this yarn is consistent with having originated from the specimen Q12 pajama top.

Specimen Q119 (CID #E-5) consists of hairs from Colette MacDonald's left hand. Four brown limb hairs of Caucasian origin were found in specimen Q119; however, these hairs do not possess sufficient characteristics to be of value for significant comparison purposes. No other hairs and/or fibers were found in specimen Q119.

Specimen Q125 (CID #E-211) consists of debris from the blue top sheet found on the floor of the master bedroom of the MacDonald residence. One brown body hair of Caucasian origin, which has been forcibly removed and which appears to have skin tissue attached, was found in specimen Q125; however, this hair does not possess sufficient characteristics to be of value for significant comparison purposes. No other hairs and/or fibers of apparent significance were found in specimen Q125.

Specimens K48 through K51 consist of hair-like fibers and hairs removed from various dolls and a stuffed toy dog. None of the above-mentioned fibers from the items in this case could be associated with specimens K48 through K51.

No other examinations were conducted on the remainder of the submitted items in this case per the conversation with Assistant United States Attorney Eric Evenson on December 17, 1990.

The Q46 and Q49 fibers are each composed primarily of "saran". It is noted these fibers do differ slightly from each other in chemical composition which indicates they did not originate from precisely the same manufacturing source or batch of raw materials.

The Q48 and K47 fibers are each classified as a "modacrylic" and do match each other in chemical composition.

The Q43 and Q44 fibers are composed primarily of polyvinyl chloride with a plasticizing (softening) additive present. It is noted that specimen Q43 is more heavily plasticized than specimen Q44. This chemical difference indicated the fibers did not originate from precisely the same

manufacturing source or batch of raw materials. Specimens Q43 and Q44 do not match the chemical composition of specimens Q48 and K47.

Prepared from the ALSO SUBMITTED 8 millimeter film were two VHS videoc tapes of the complete contents of the film.

The master tape used to prepare the VHS copies is being retained in the Laboratory.

Specimens Q131A, Q132, K47 through K51 and the remainder of the submitted items in this case are being temporarily retained in the FBI Laboratory until called for by a representative of your office.